

FIGURE 1

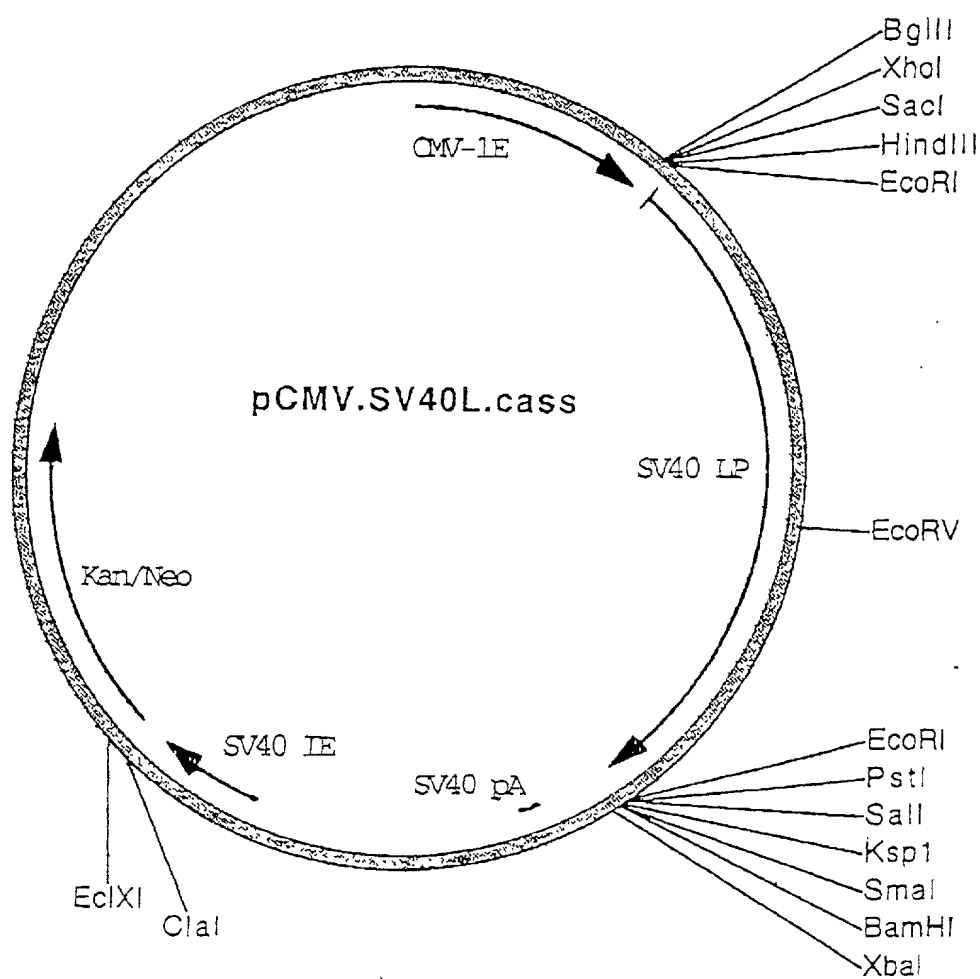


FIGURE 3

09997901 00000000

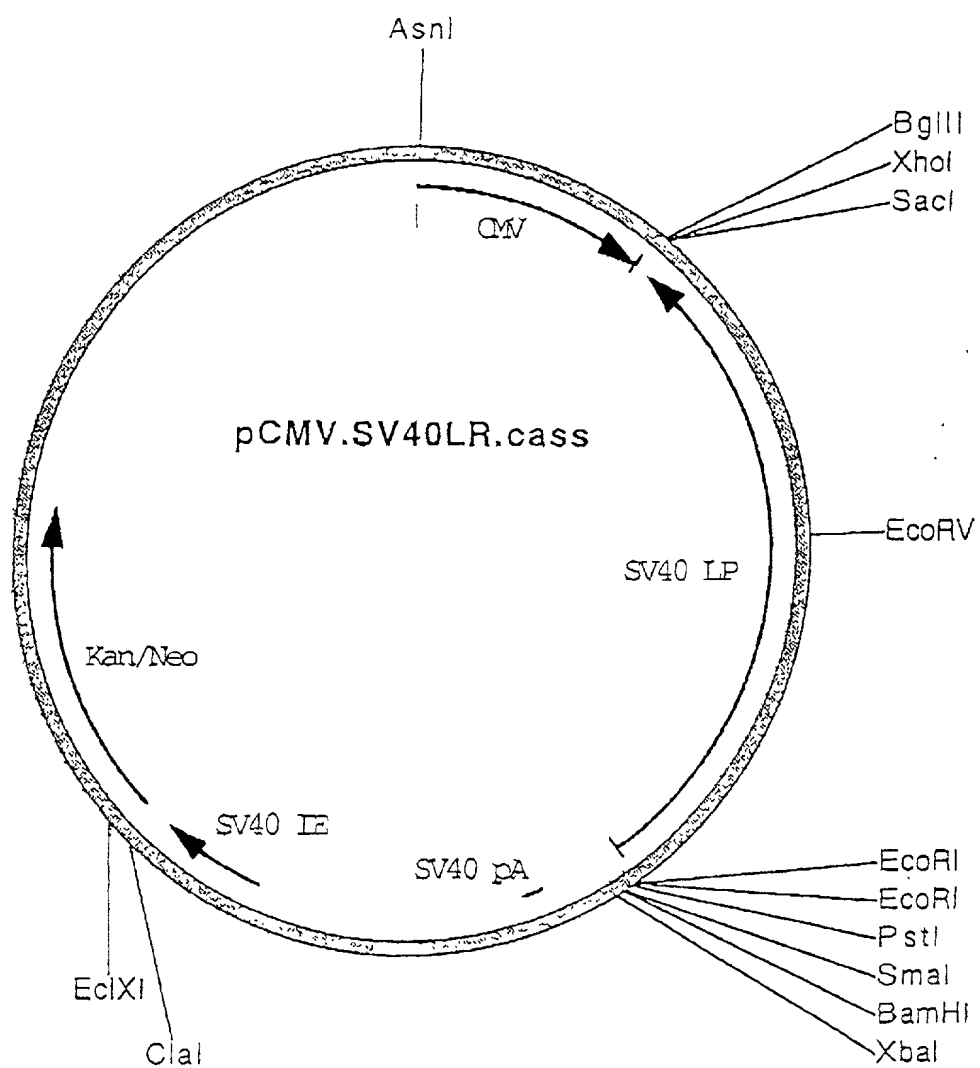


FIGURE 4

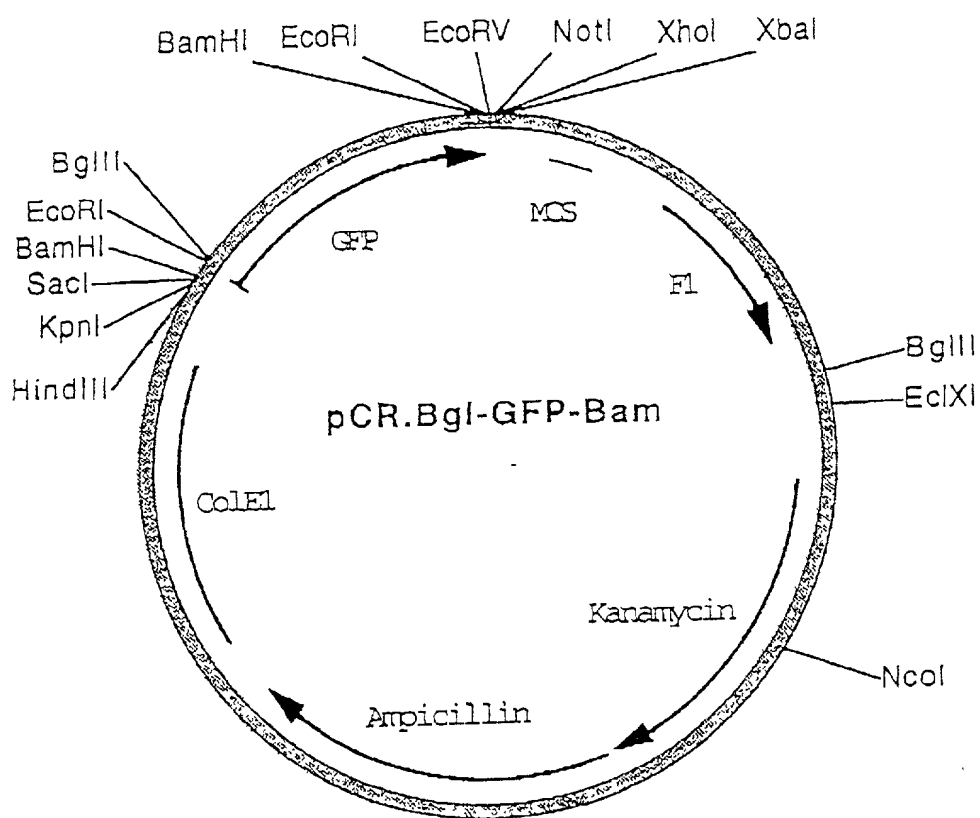


FIGURE 5

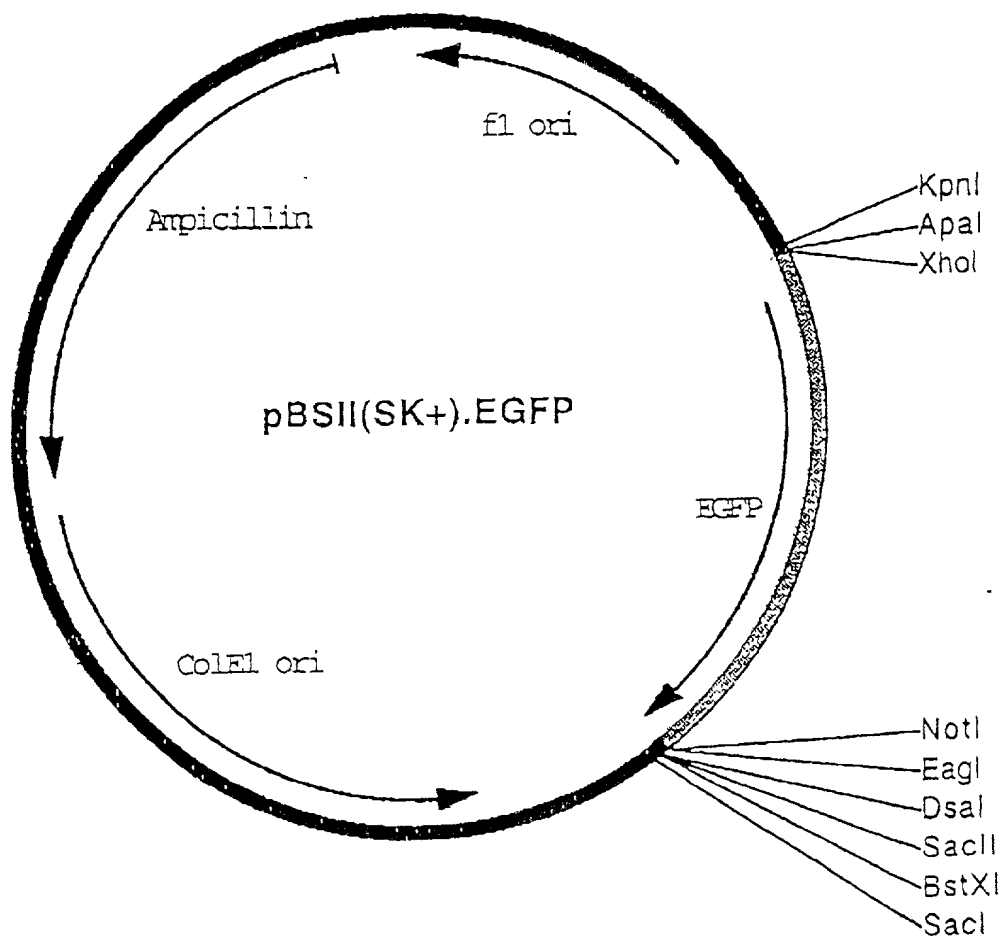


FIGURE 6

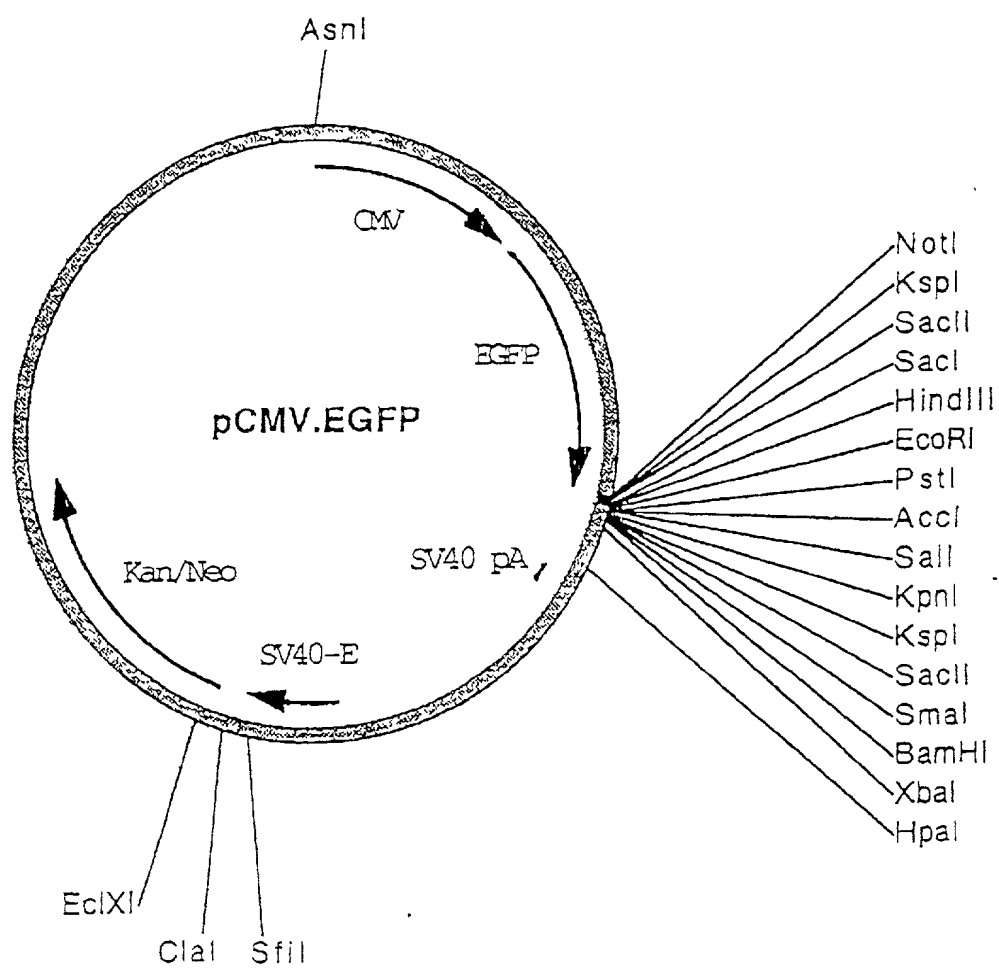


FIGURE 7

2

FIGURE 10

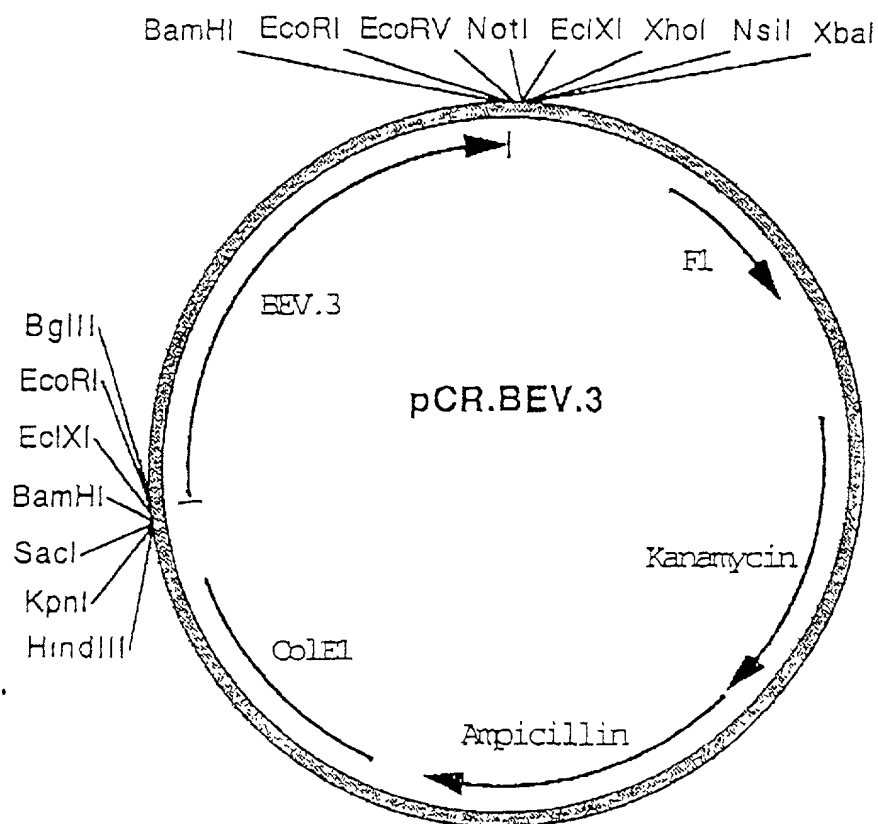


FIGURE 11

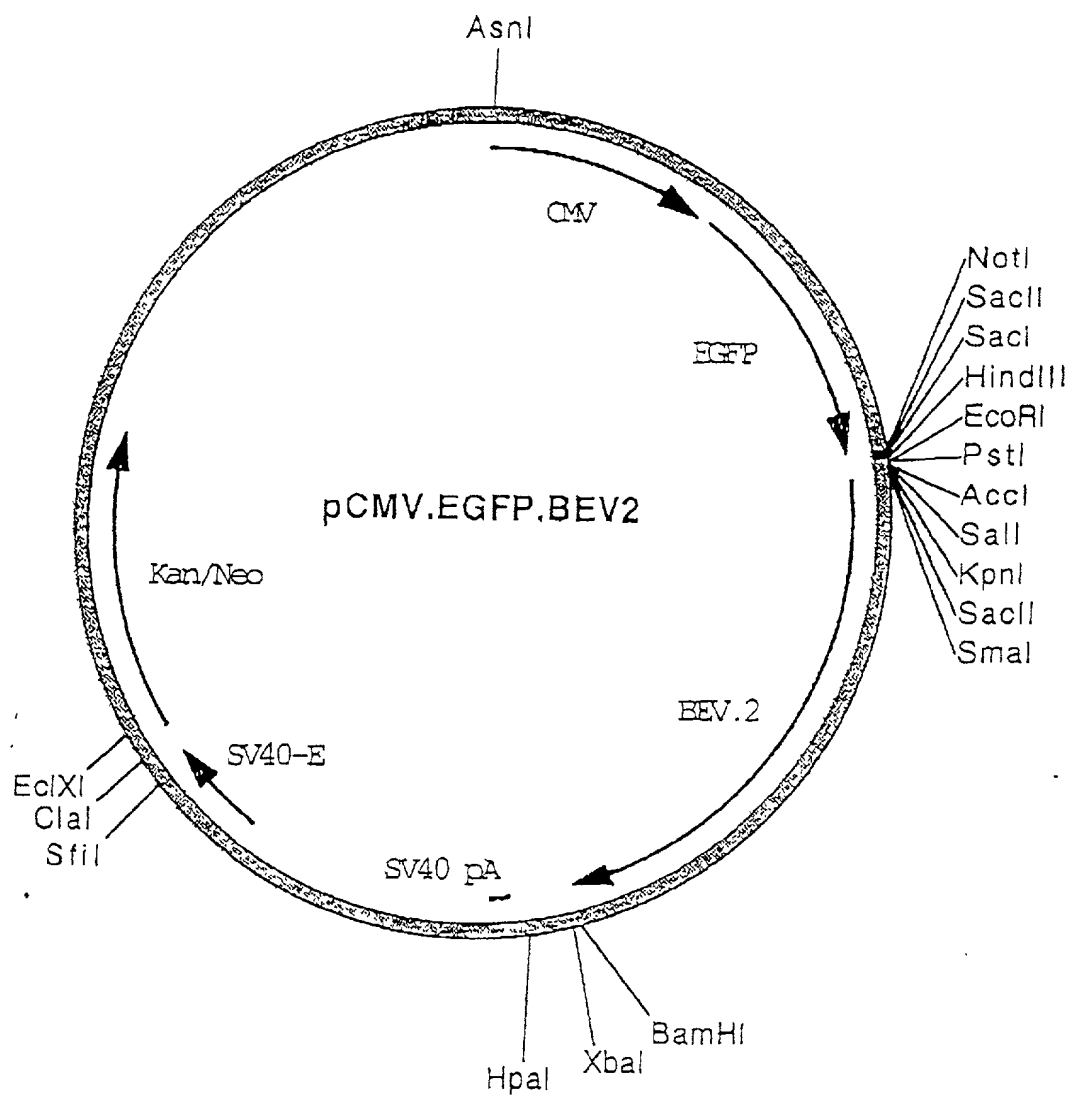


FIGURE 12

A circular map of the pCMV.BEV.3 plasmid. The plasmid is 3.0 kb in size. Key features include: the CMV promoter (CMV) at the top; the BEV.3 gene (BEV.3) on the right; the SV40 pA signal (SV40 pA) at the bottom right; the SV40-E gene (SV40-E) at the bottom left; the Kan/Neo resistance gene (Kan/Neo) on the left; and the AsnI restriction site at the top. Restriction sites for BglII, BamHI, XbaI, HpaI, SfiI, ClaI, and EcoXI are also indicated.

1

三

1

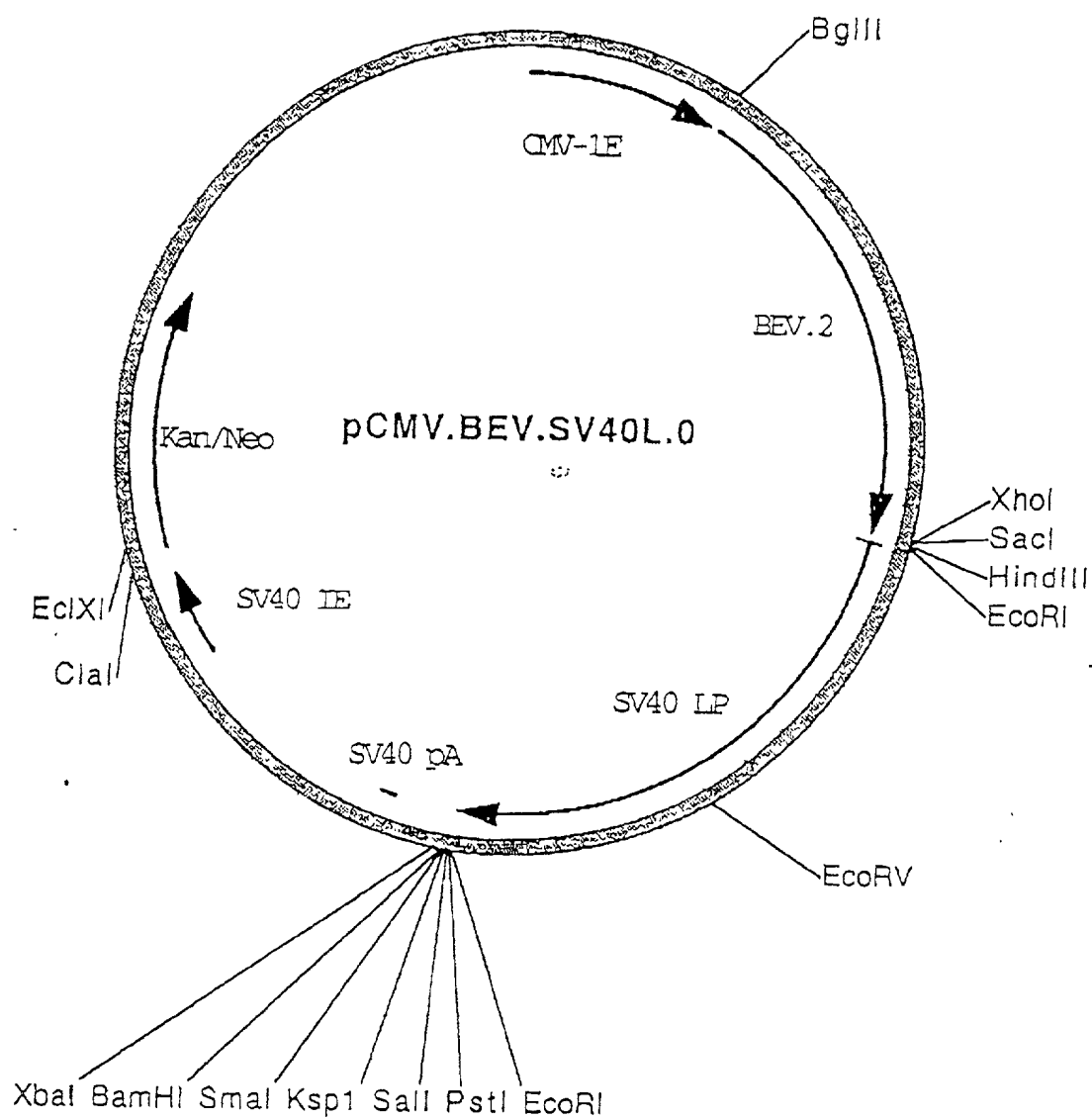


FIGURE 17

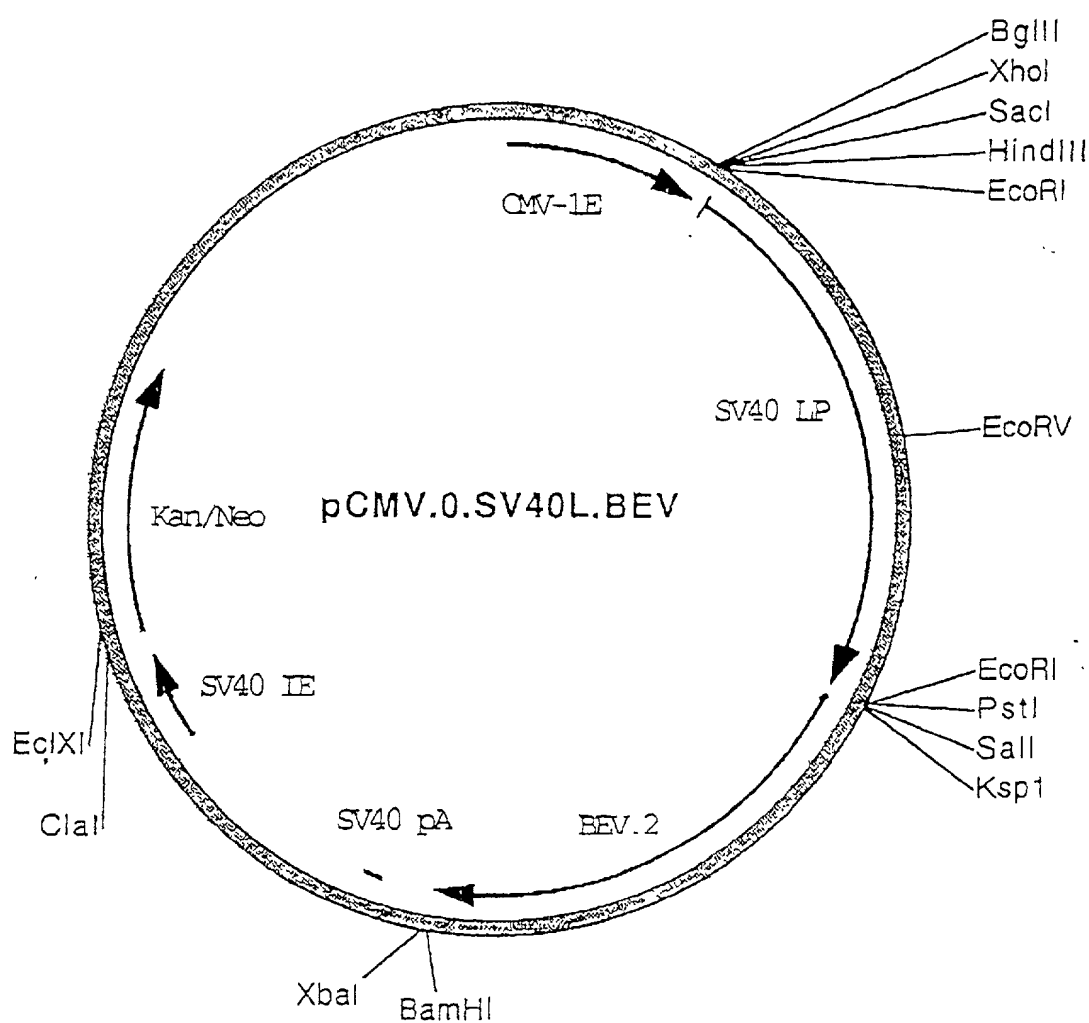


FIGURE 18

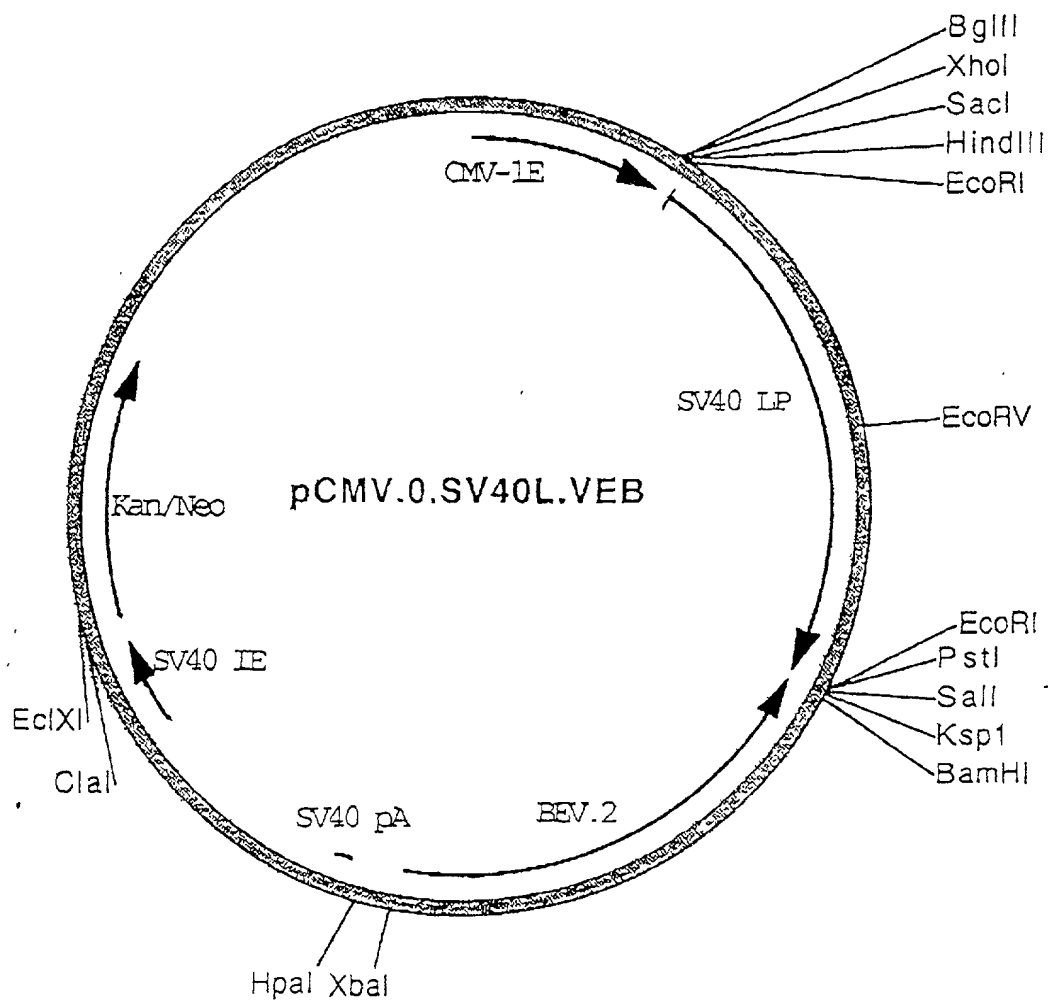


FIGURE 19

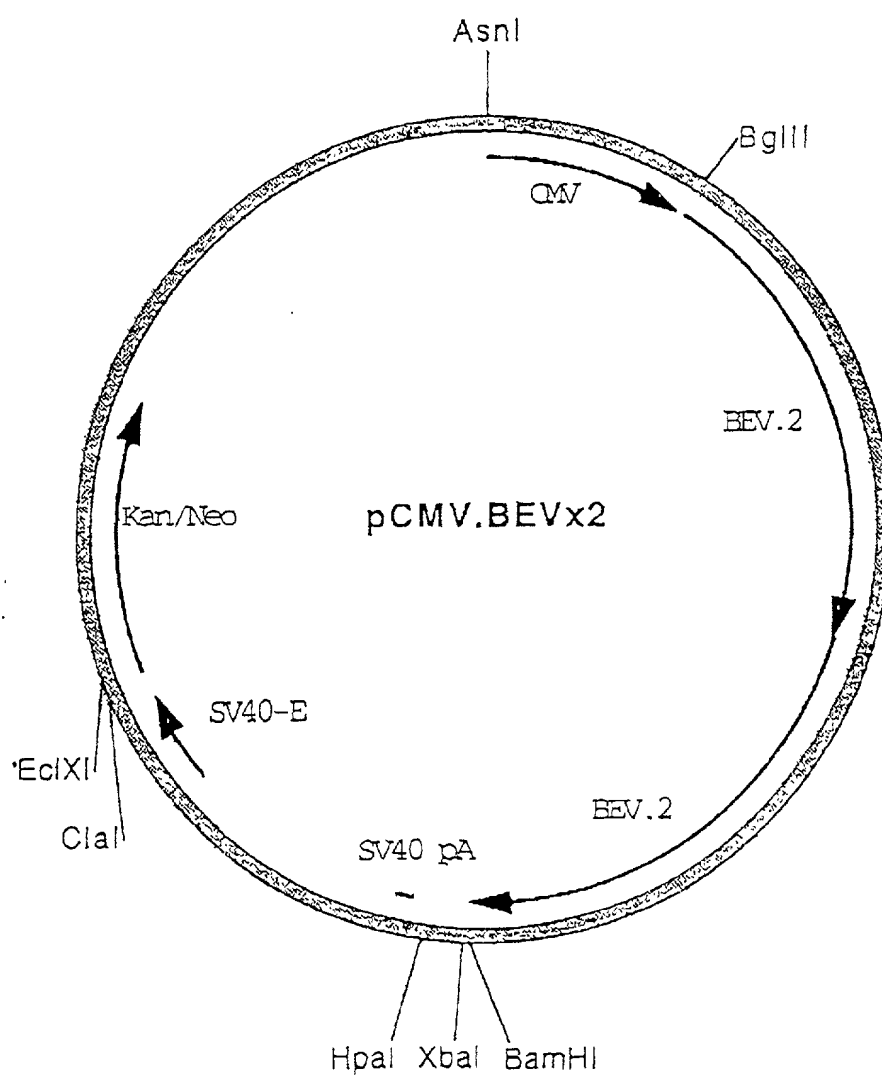


FIGURE 20

3

1

03937503-1-3000
FIGURE 23

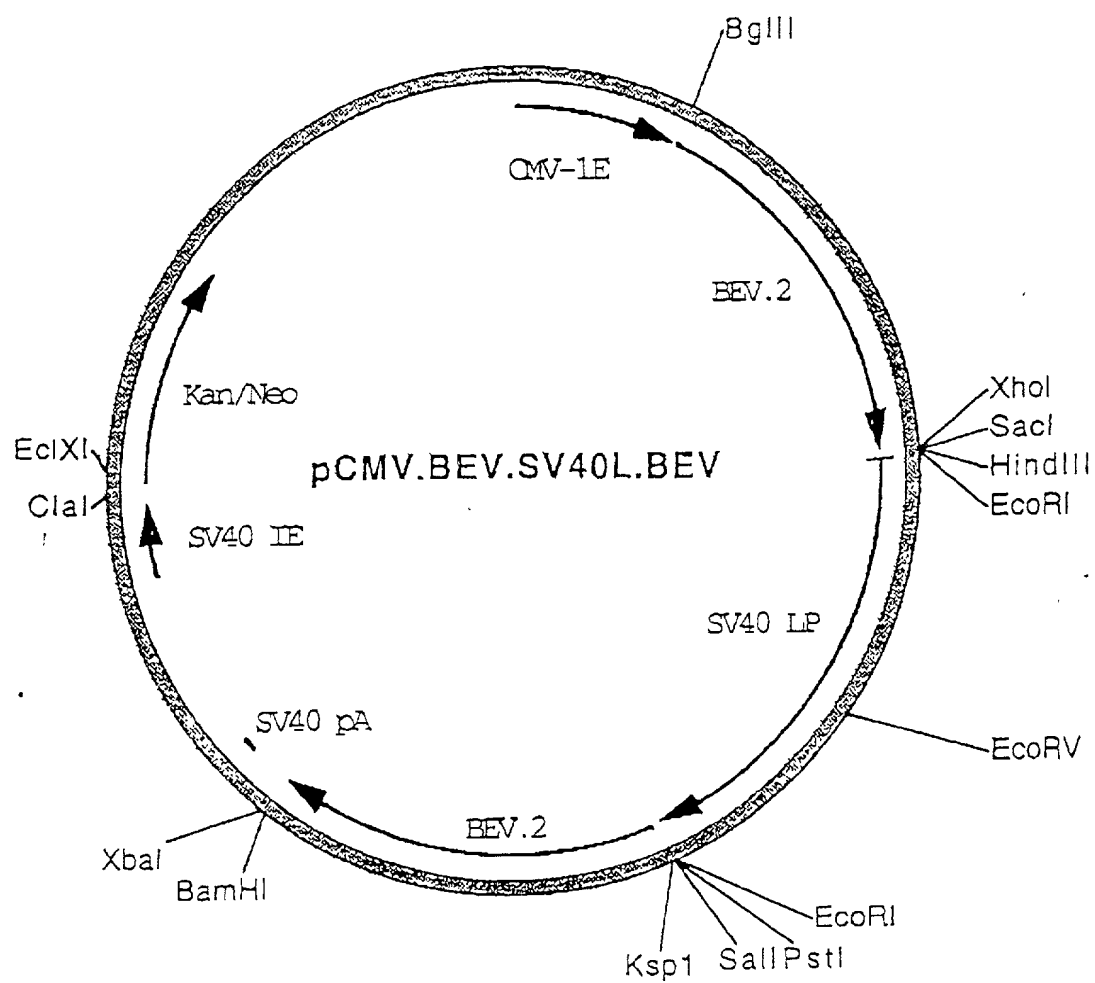


FIGURE 23

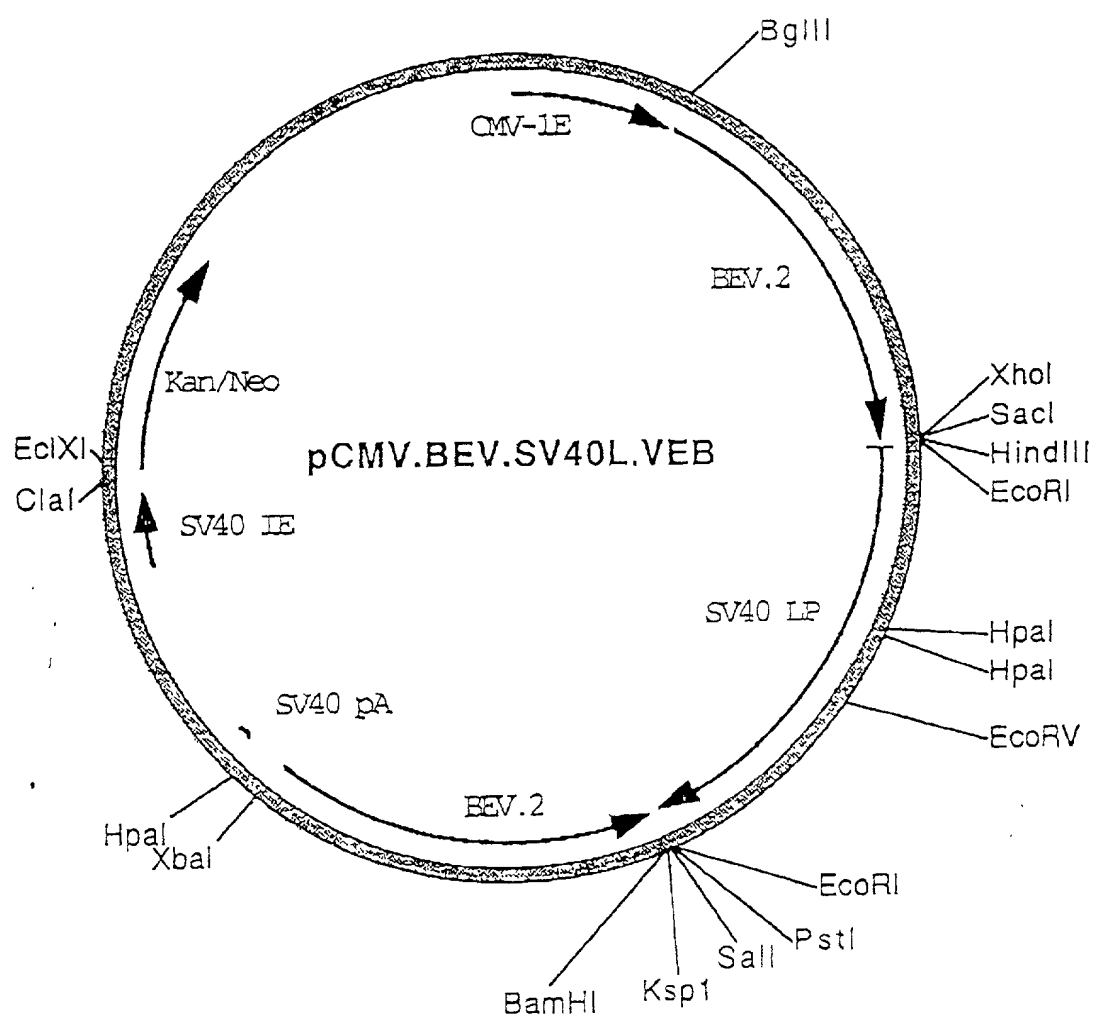


FIGURE 24

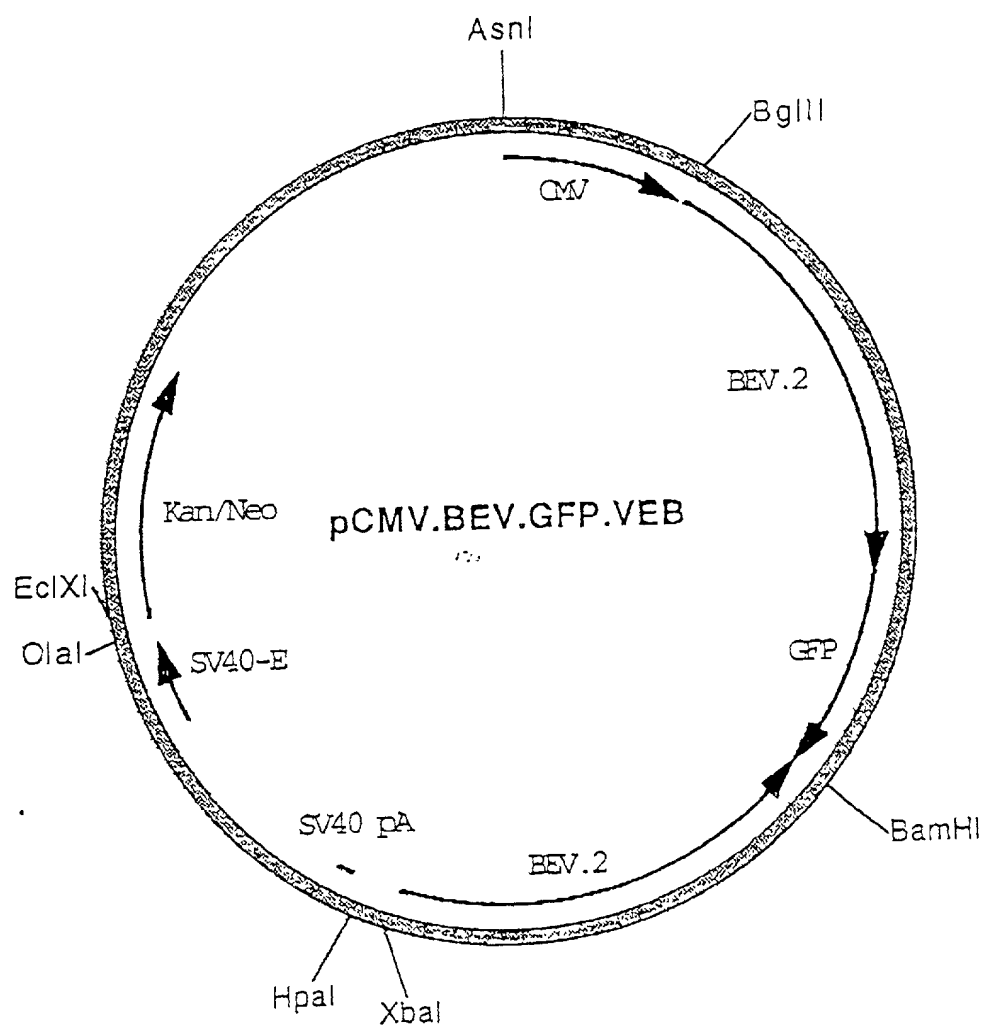


FIGURE 25

Diagram of the pCMV.EGFP.BEV2.PFG plasmid construct. The circular plasmid contains several key elements: a CMV promoter driving the EGFP gene, a BEV.2 origin of replication, an SV40 promoter driving the SV40-E gene, and an SV40 pA signal. Restriction enzyme sites are indicated around the plasmid: AsnI, NotI, SacI, HindIII, EcoRI, PstI, AccI, SalI, BamHI, XbaI, HpaI, Clal, and EcoXI. The plasmid is labeled pCMV.EGFP.BEV2.PFG.

1

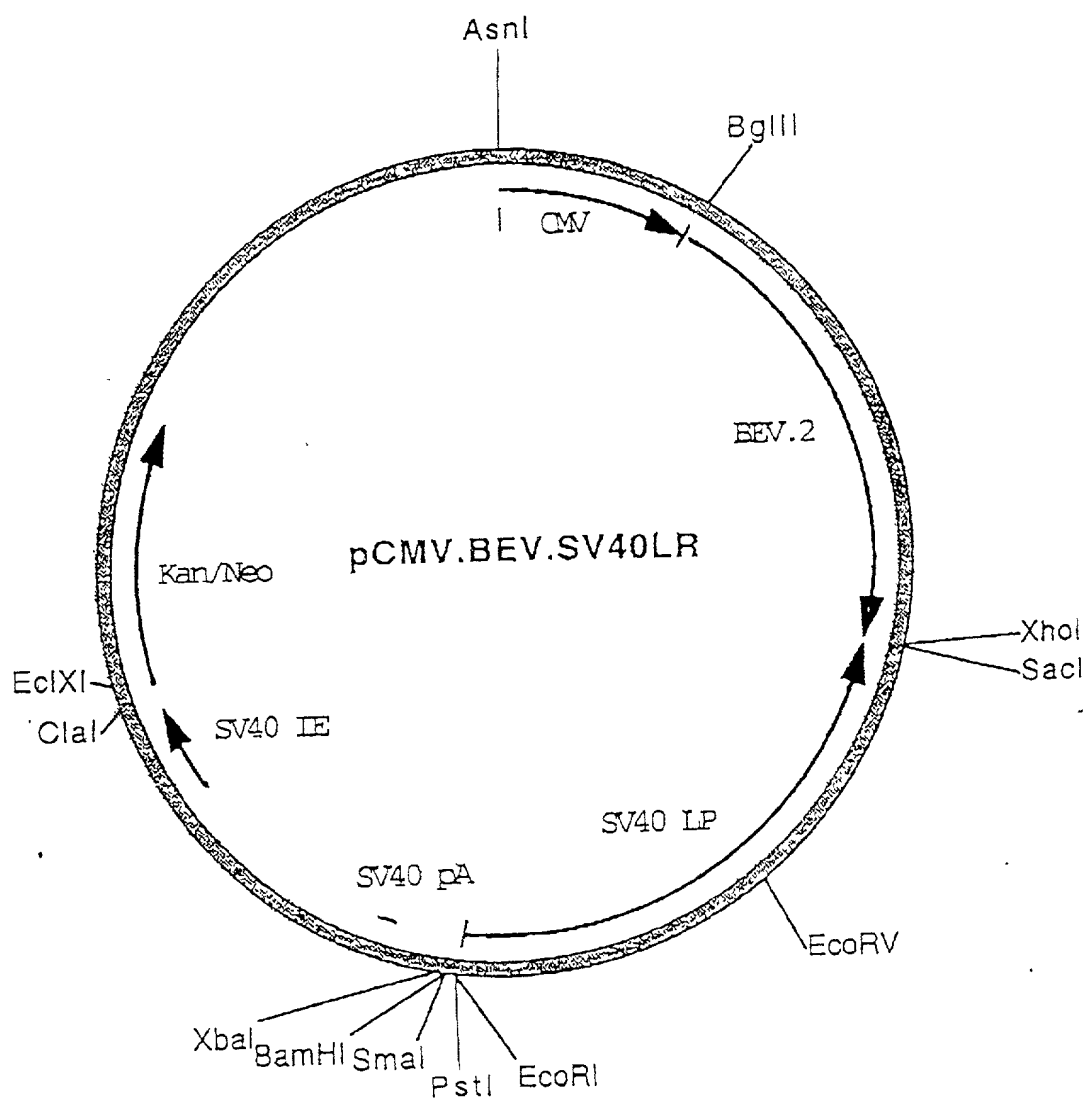


FIGURE 27

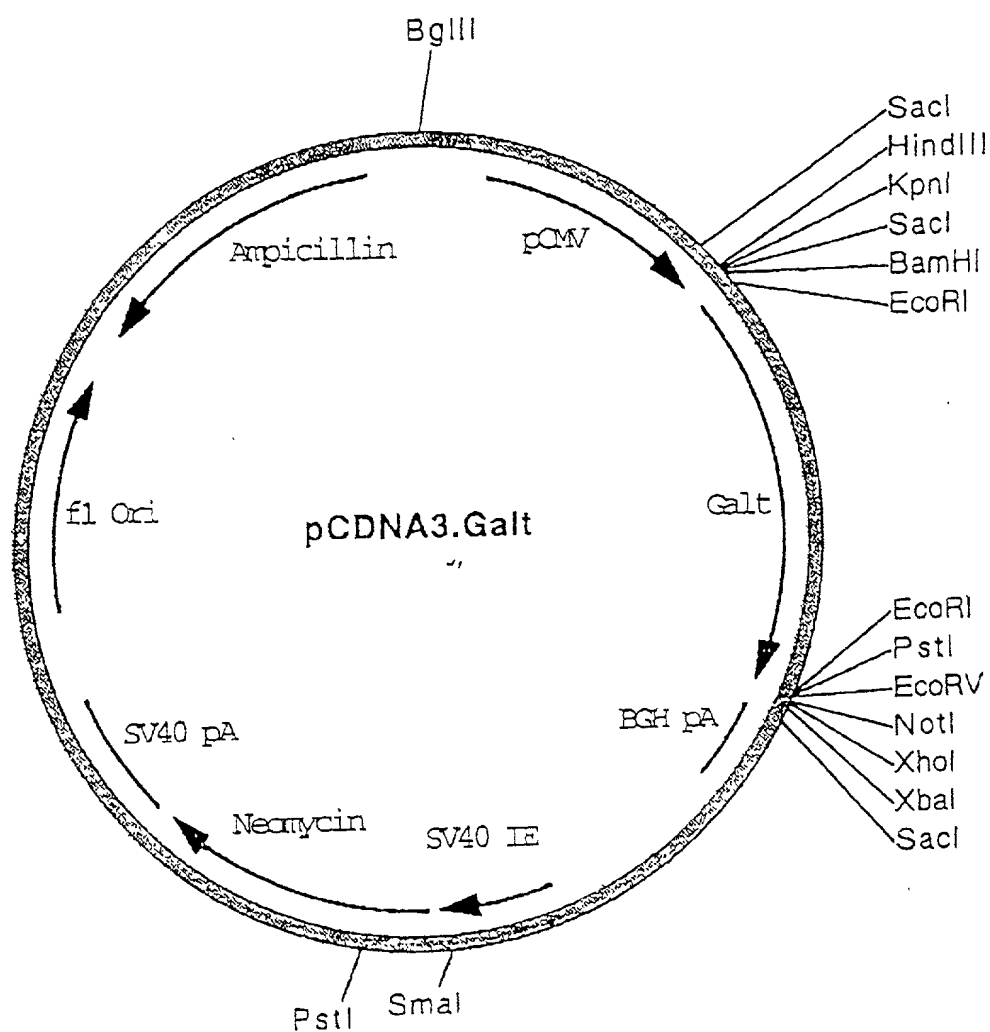


FIGURE 28

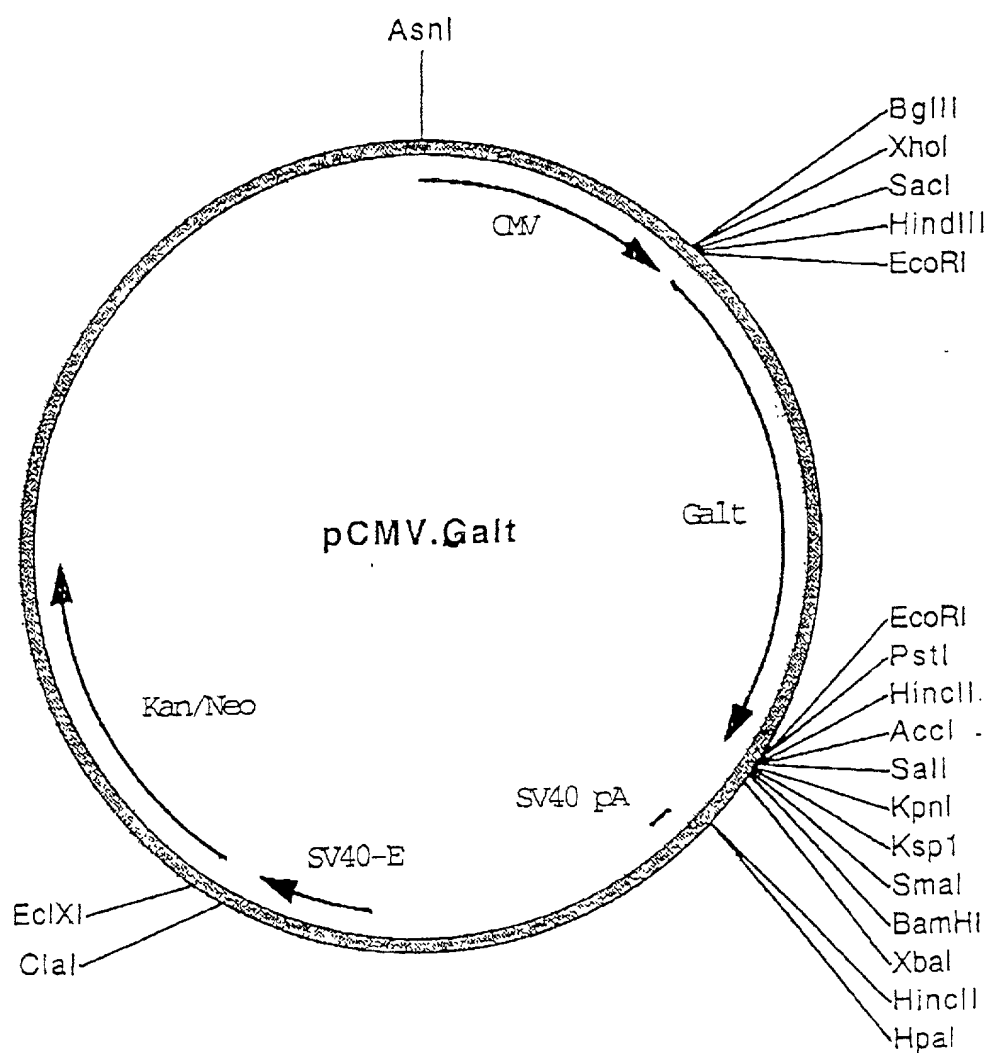


FIGURE 29

Figure 30

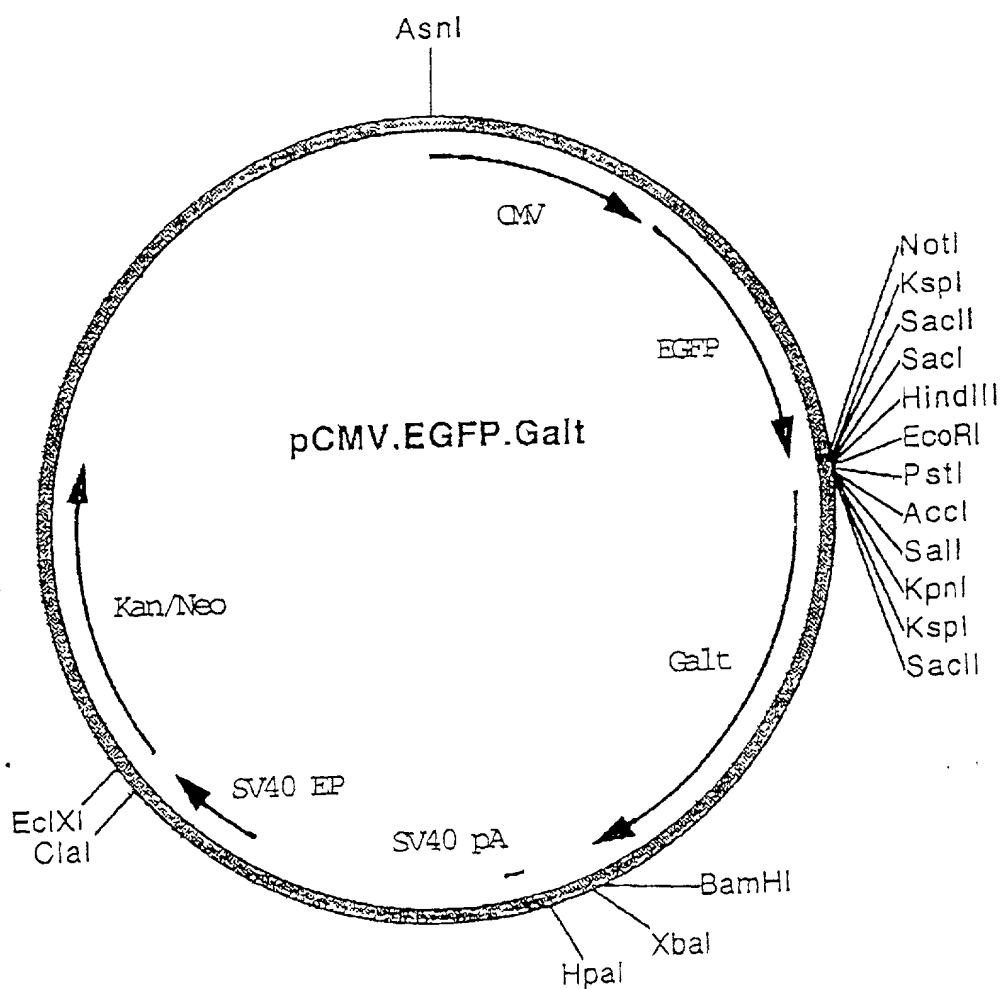


FIGURE 30

pCMV.Galt.GFP

Restriction enzyme sites and features:

- AsnI
- BglII
- XhoI
- SacI
- HindIII
- EcoRI
- Galt
- GFP
- SV40 pA
- BamHI
- XbaI
- HpaI
- KspI
- KpnI
- Sall
- AccI
- HincII
- PstI
- EcoRI
- SV40-E
- Kan/Neo
- EclXI
- Clal
- CMV

1

1

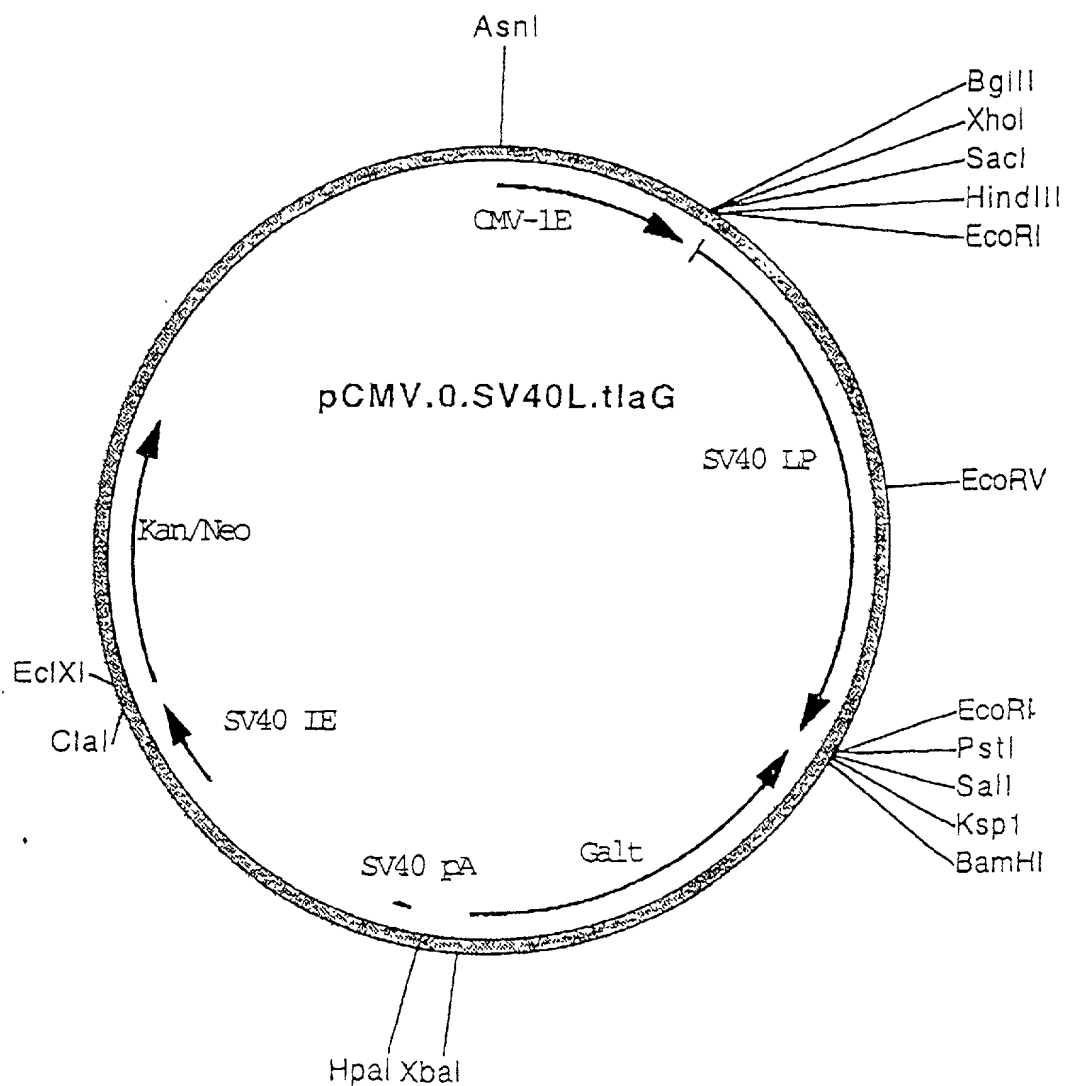


FIGURE 33

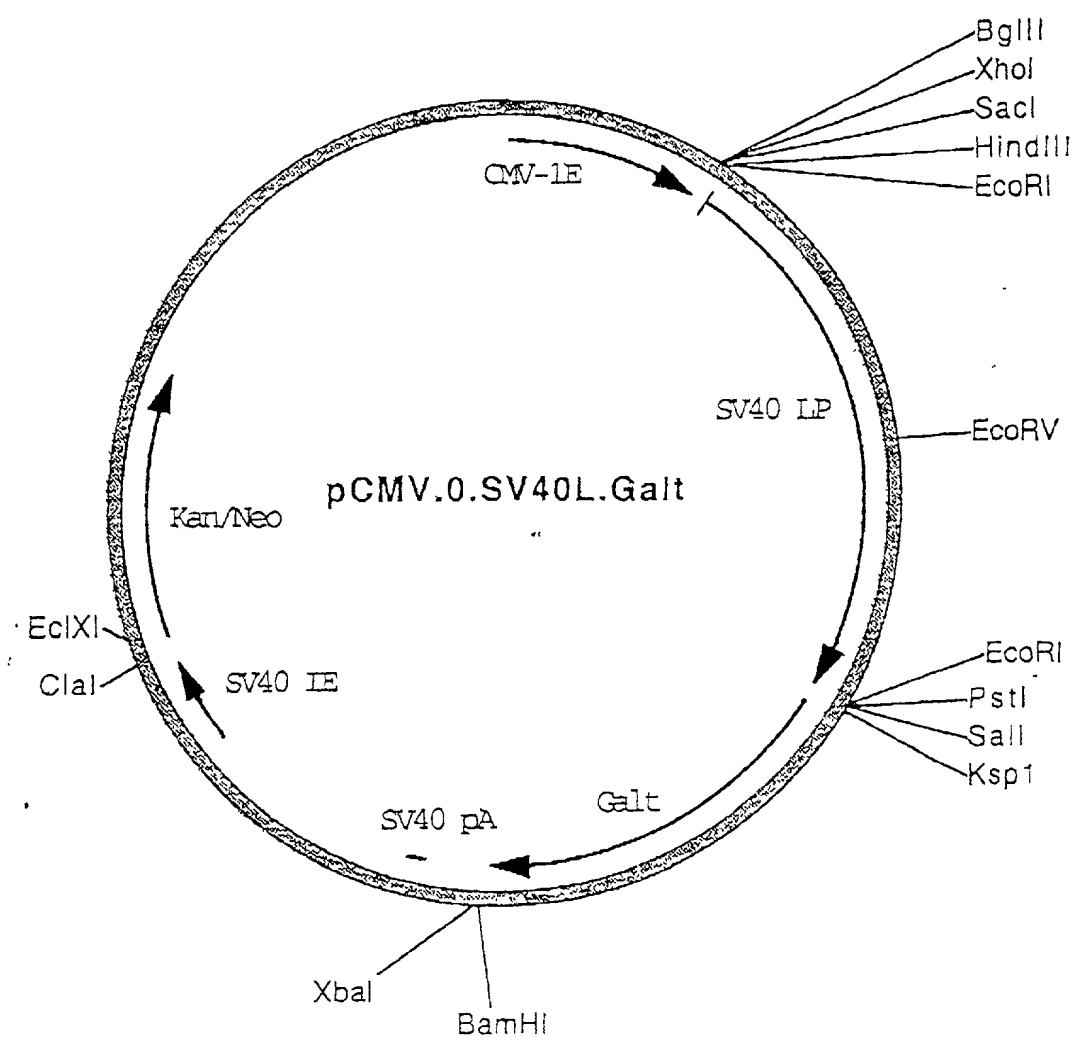


FIGURE 34

3

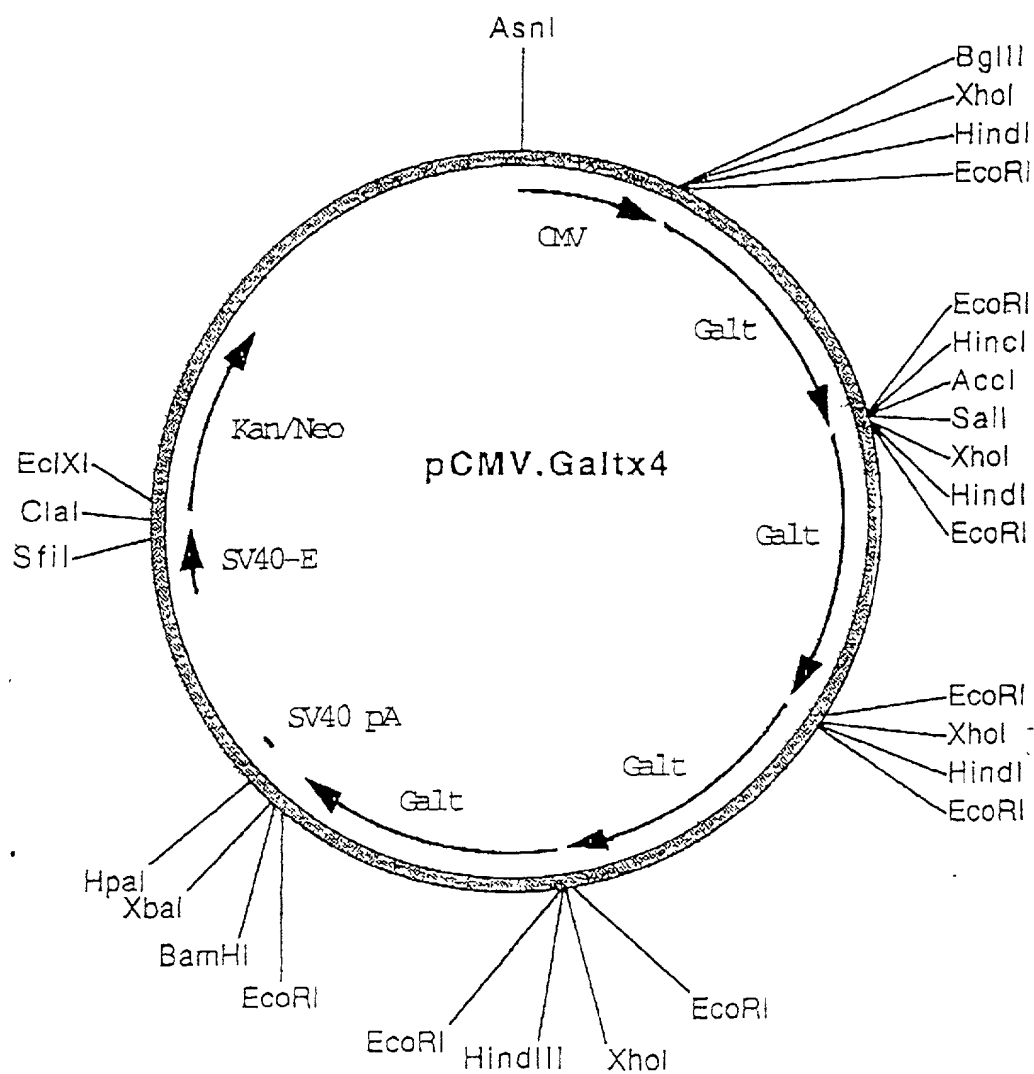


FIGURE 36

A circular map of the pCMV.Galt.SV40L.Galt plasmid. The plasmid is 3.0 kb in size. Key features include: CMV-1E promoter (top), Galt gene (top right), SV40 LP (bottom right), SV40 pA (bottom), SV40 IE (bottom left), Kan/Neo (left), and various restriction sites (AsnI, BglII, XhoI, SacI, HindIII, EcoRI, EcoRV, AsnI, EcoRI, PstI, Sall, KspI, BamHI, XbaI, Glal, EcoXI).

1

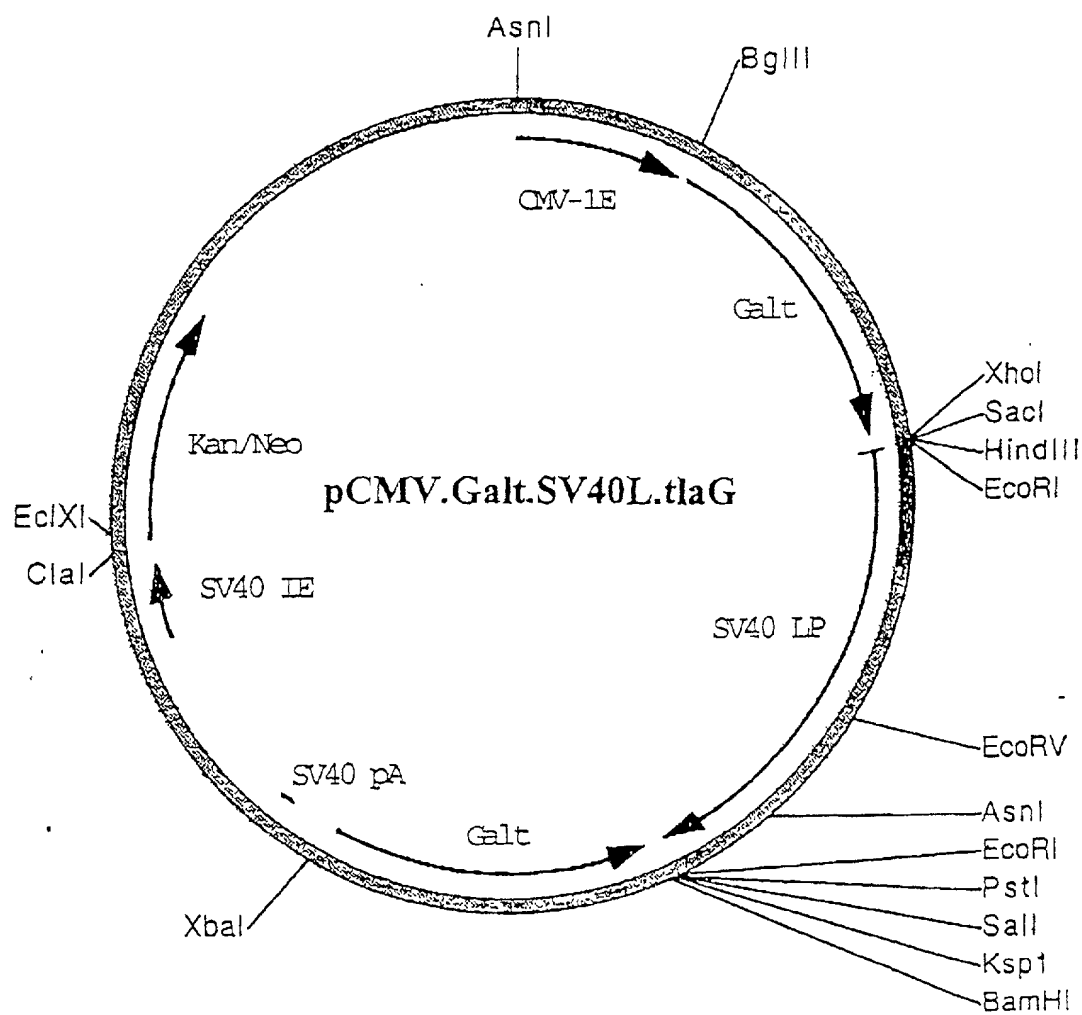


FIGURE 38

[illegible]

2

09097905.1303
T00045067600

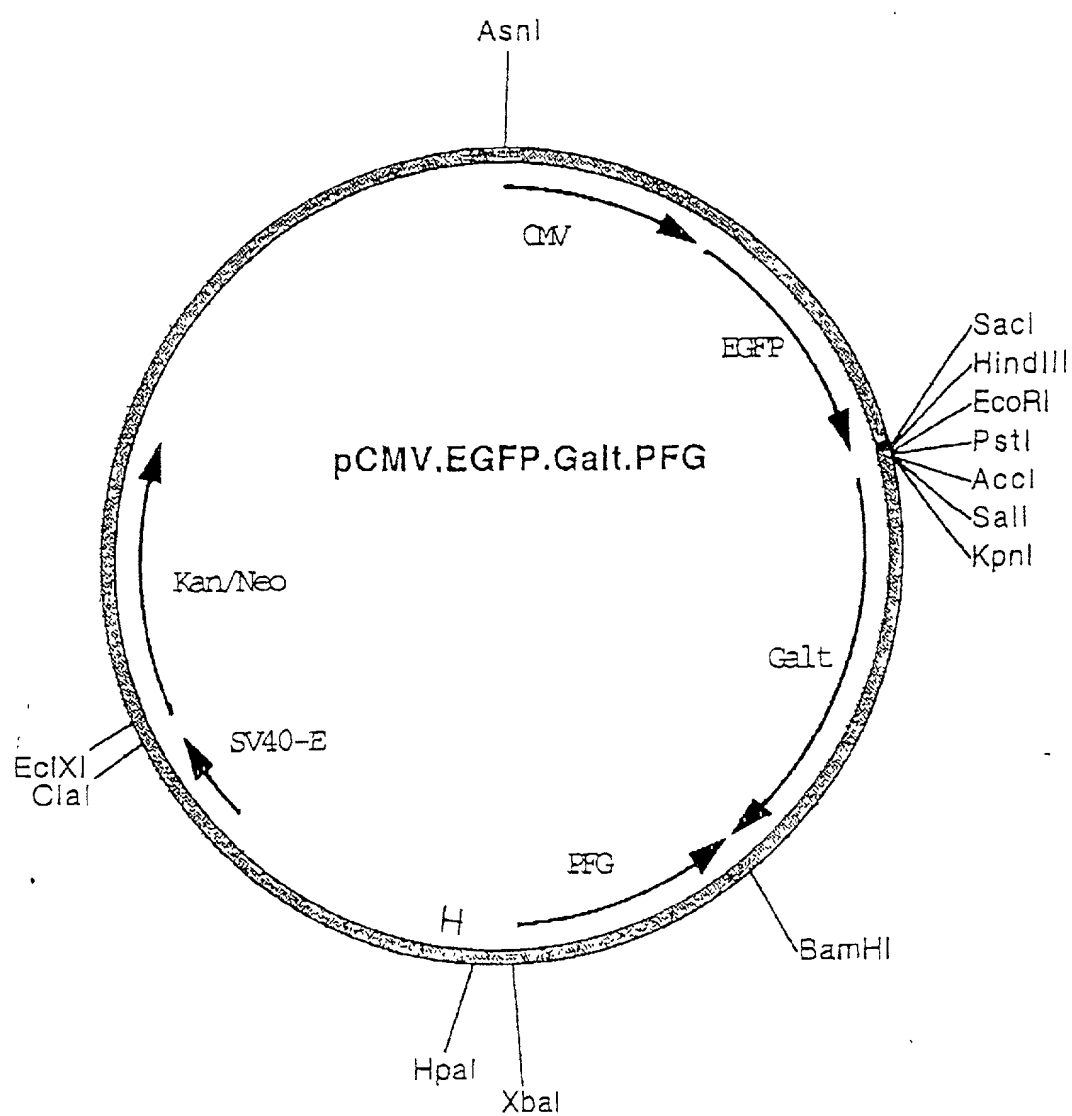


FIGURE 40

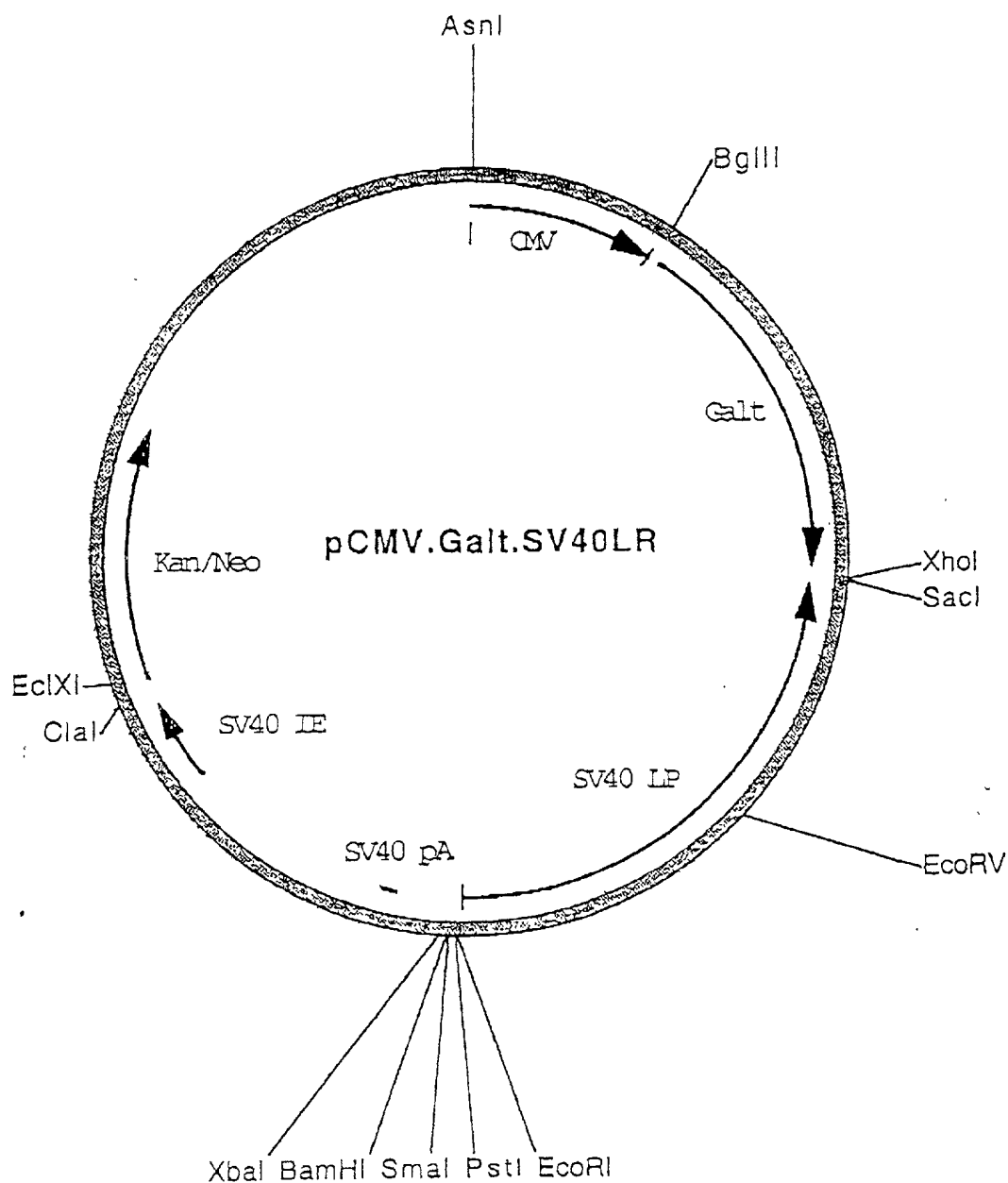


FIGURE 41

Circular map of the pART7 plasmid. The plasmid is 35S in size. It features a Multiple Cloning Site (MCS) with restriction sites for XhoI, EcoRI, KpnI, SmaI, ClaI, HindIII, BamHI, and XbaI. The plasmid also contains an Ampicillin resistance gene (Ampicillin), a fl ori (f1 origin of replication), and a NotI site. The MCS is located between the 35S and OCS 3' regions.

2

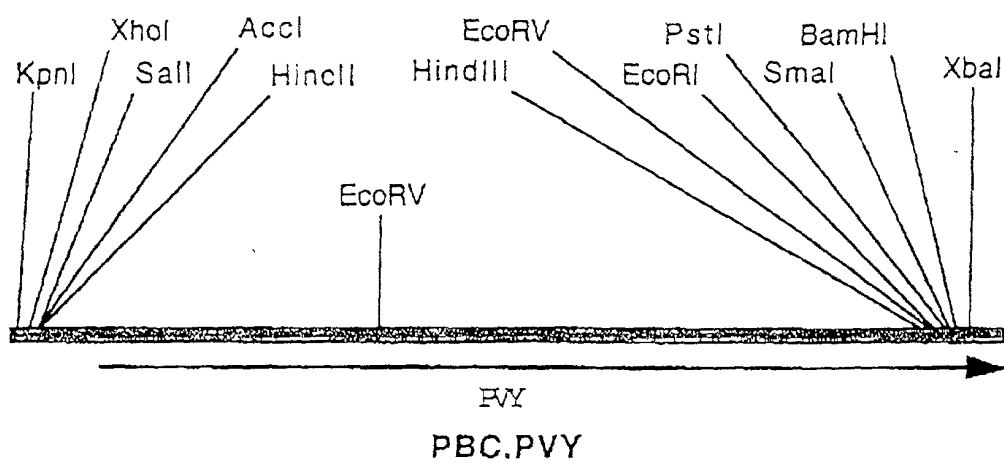
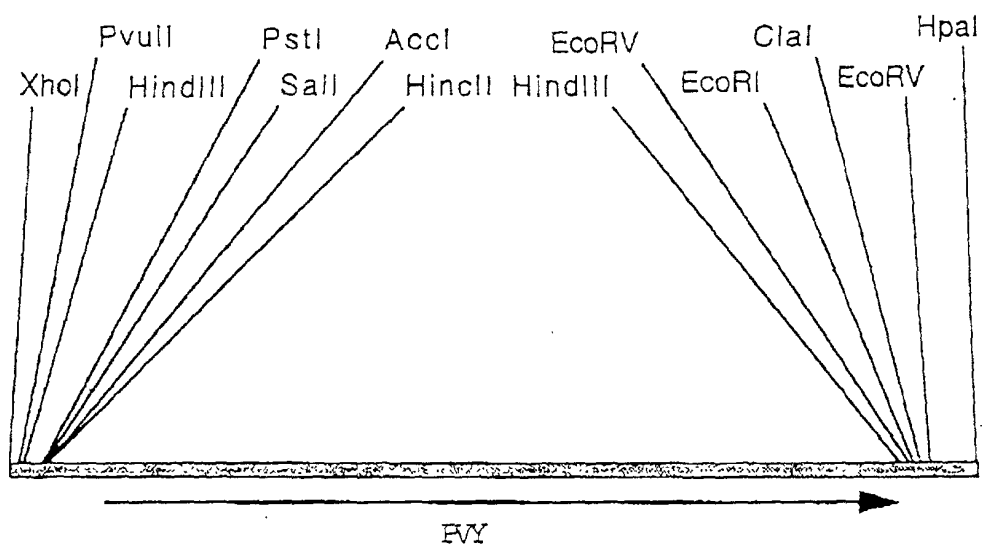


FIGURE 44



pSP72.PVY

FIGURE 45

Restriction map of the ClapBC.PVY genome. The genome is represented as a horizontal line with an arrow pointing right, labeled 'PVY' and 'ClapBC.PVY'. Restriction sites are indicated by vertical lines with labels: XhoI, SalI, AccI, HincII, EcoRV, HindIII, EcoRI, ClaI, HindIII, EcoRV, EcoRI, SmaI, and XbaI.

1

Restriction map of the pBC.PVYx3 plasmid. The map shows a circular plasmid with a 3.0 kb scale bar. The plasmid contains three PVY genes, each flanked by EcoRV and HindIII sites. The map also shows various other restriction sites including KpnI, XhoI, SalI, AclI, HincII, EcoRI, EcoRV, HindIII, ClaI, and BamHI.

B

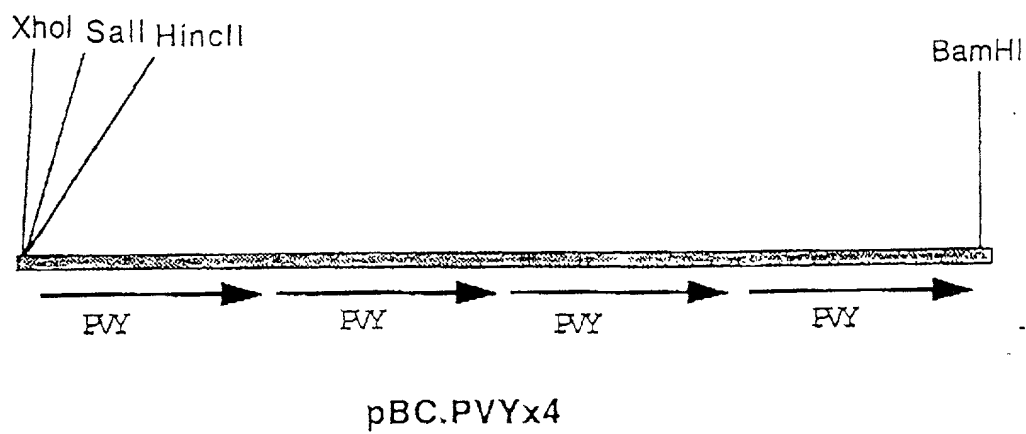


FIGURE 50

09997903 4000

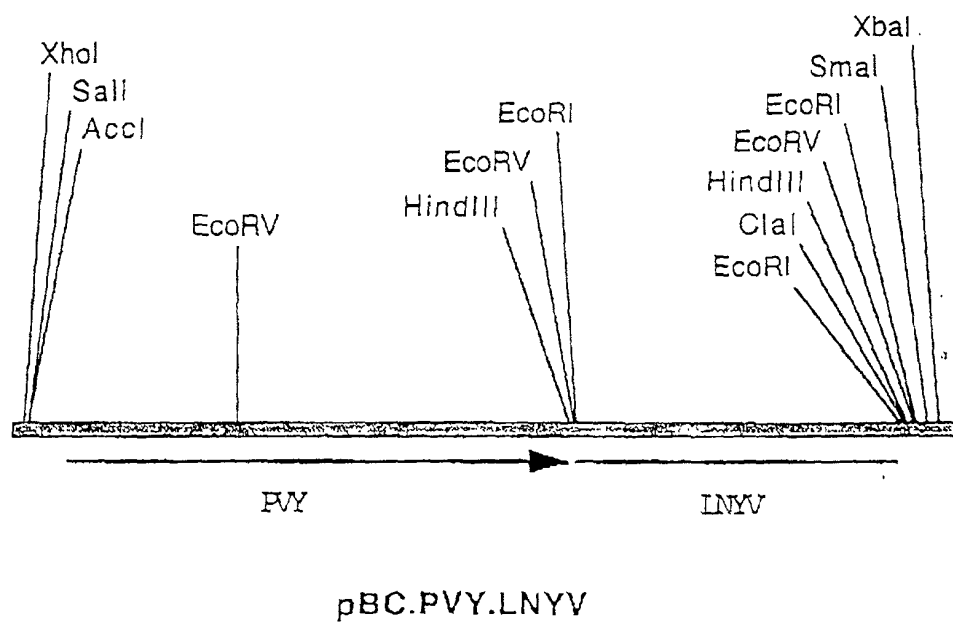
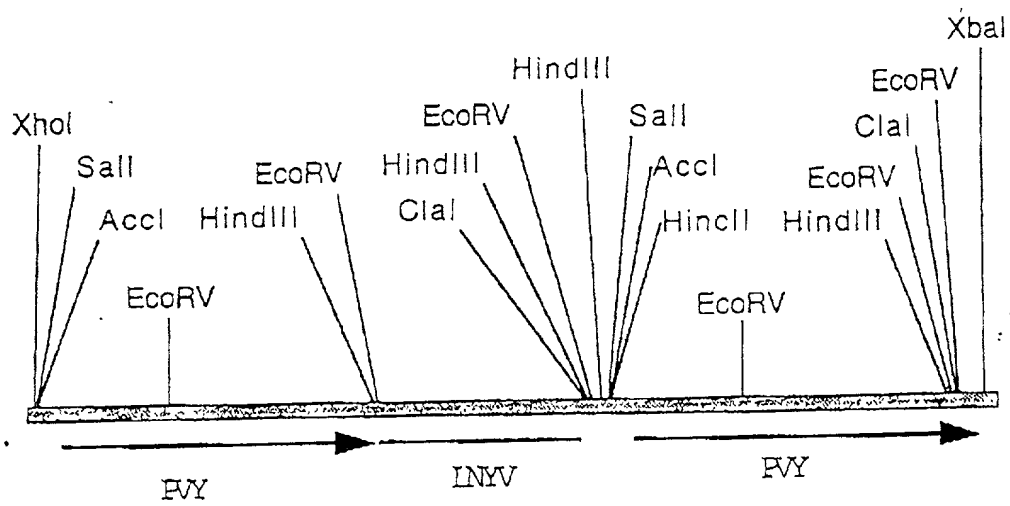


FIGURE 51



pBC.PVY.LNYV.PVY

FIGURE 52

Restriction map of the pBC.PVY.LNYV.YVPΔ construct. The map shows a linear DNA sequence with three main regions: PVY, LNYV, and YVPΔ. Restriction sites are indicated by vertical lines and labeled with enzyme names: XhoI, SalI, AccI, EcoRV, EcoRI, EcoRV, EcoRI, EcoRV, HindIII, ClaI, EcoRI, EcoRV, EcoRI, XbaI, BamHI, and NotI. Arrows below the map indicate the orientation of the PVY, LNYV, and YVPΔ regions.

A circular map of the pART7.PVY plasmid. The plasmid is 35S in size. It contains the PVY gene, flanked by NotI sites. Other features include the Ampicillin resistance gene, f1 ori, and OCS 3' site. Restriction sites for XhoI, EcoRI, KpnI, SmaI, EcoRV, ClaI, HindIII, BamHI, and XbaI are also indicated.

3

Circular map of the pART7.35S.PVY.SCBV.0 plasmid. The plasmid is 3.0 kb and contains several key elements: a 35S promoter, a PVY gene, a nos3' terminator, a fl ori (f1 origin of replication), an OCS 3' terminus, and an Ampicillin resistance gene. Restriction enzyme sites are marked around the circle: NotI, XhoI, HincII, SalI, EcoRV, EcoRI, KpnI, SmaI, AatII, NruI, SfiI, AatII, Clal, HindIII, BamHI, and XbaI.

1

pART7.35S.0.SCBV.PVY

35S

nos3'

SCBV

PVY

OCS 3'

fl ori

Ampicillin

NotI

XhoI

EcoRI

KpnI

SmaI

AatII

NruI

SfiI

AatII

EcoRV

ClaI

HindIII

BamHI

XbaI

1

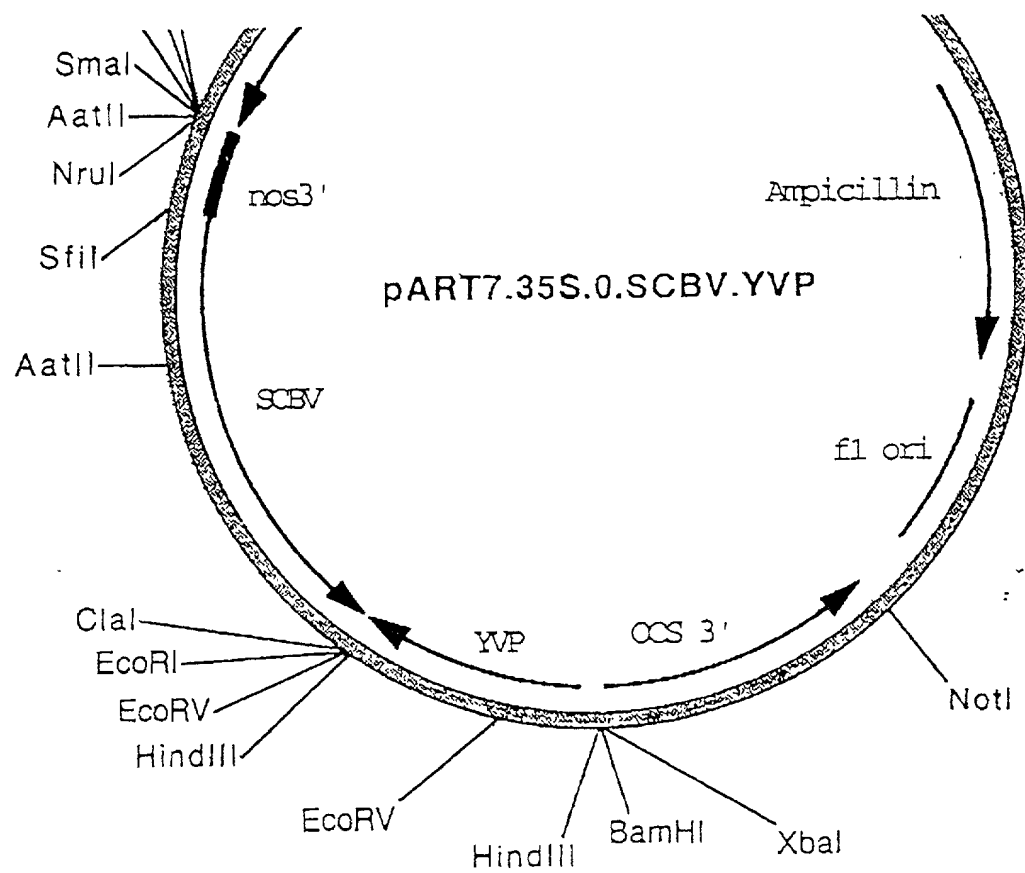


FIGURE 58

A circular map of the pART7.PVYx2 plasmid. The plasmid is 35S in size. It contains two PVY genes, an Ampicillin resistance gene, and an f1 ori. Restriction sites for NotI, XhoI, HindIII, EcoRV, EcoRI, Clal, BamHI, and XbaI are indicated. The origin of replication is labeled OCS 3'.

FIGURE 59

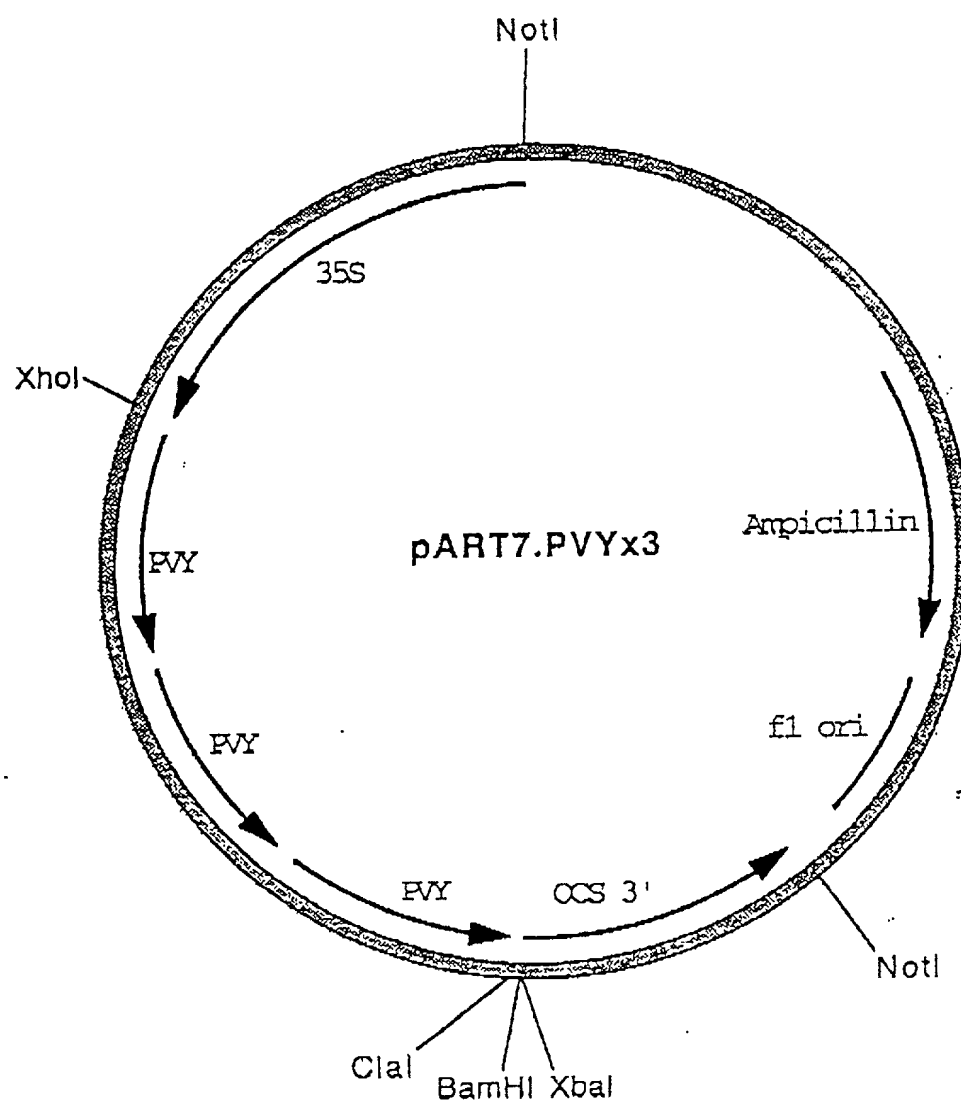


FIGURE 60

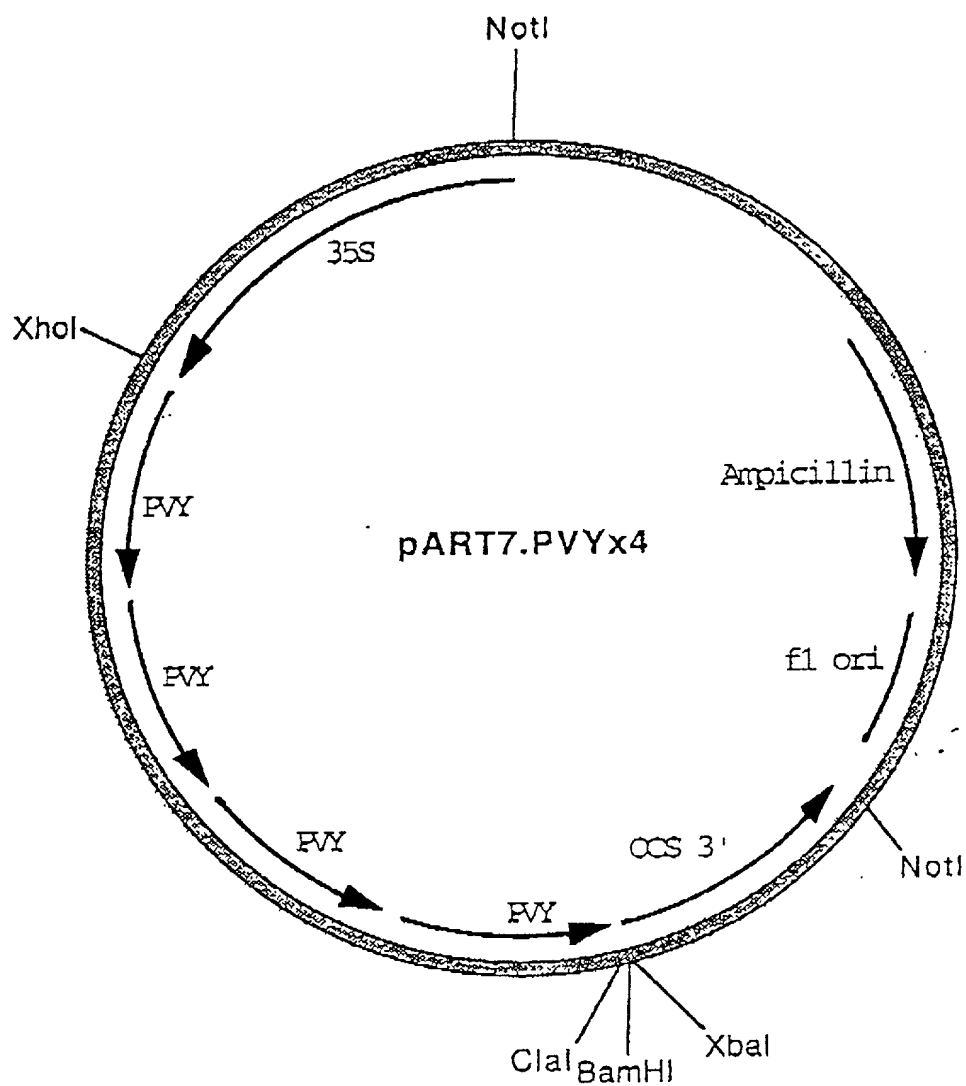


FIGURE 61

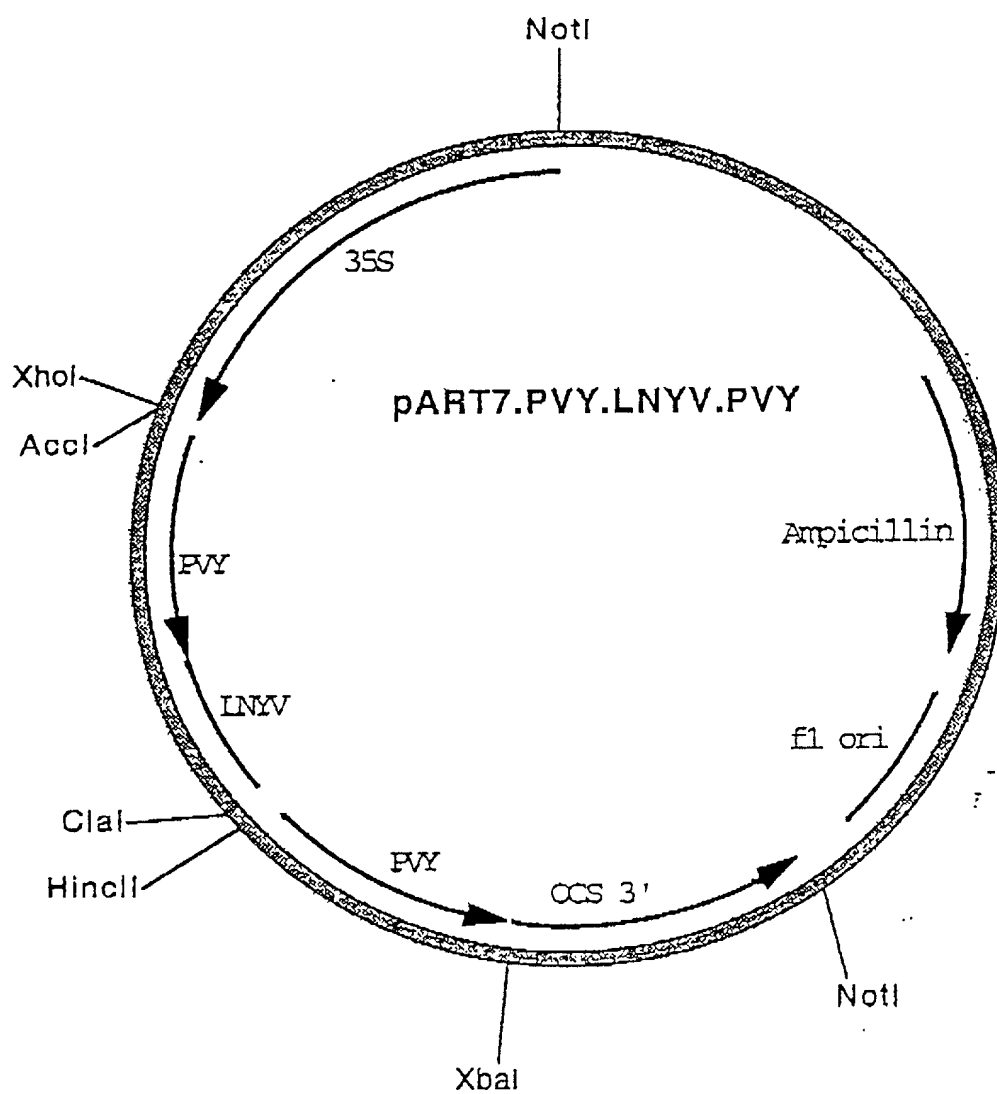


FIGURE 62

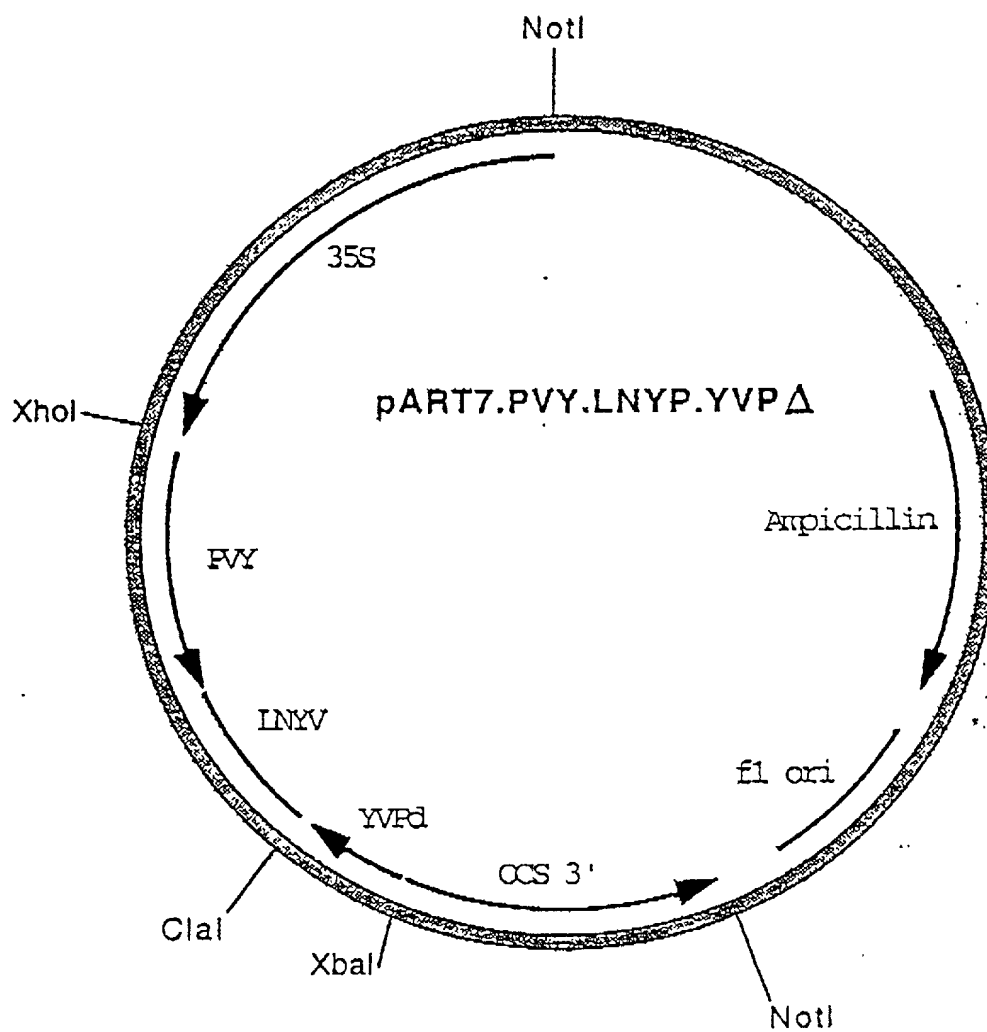


FIGURE 63

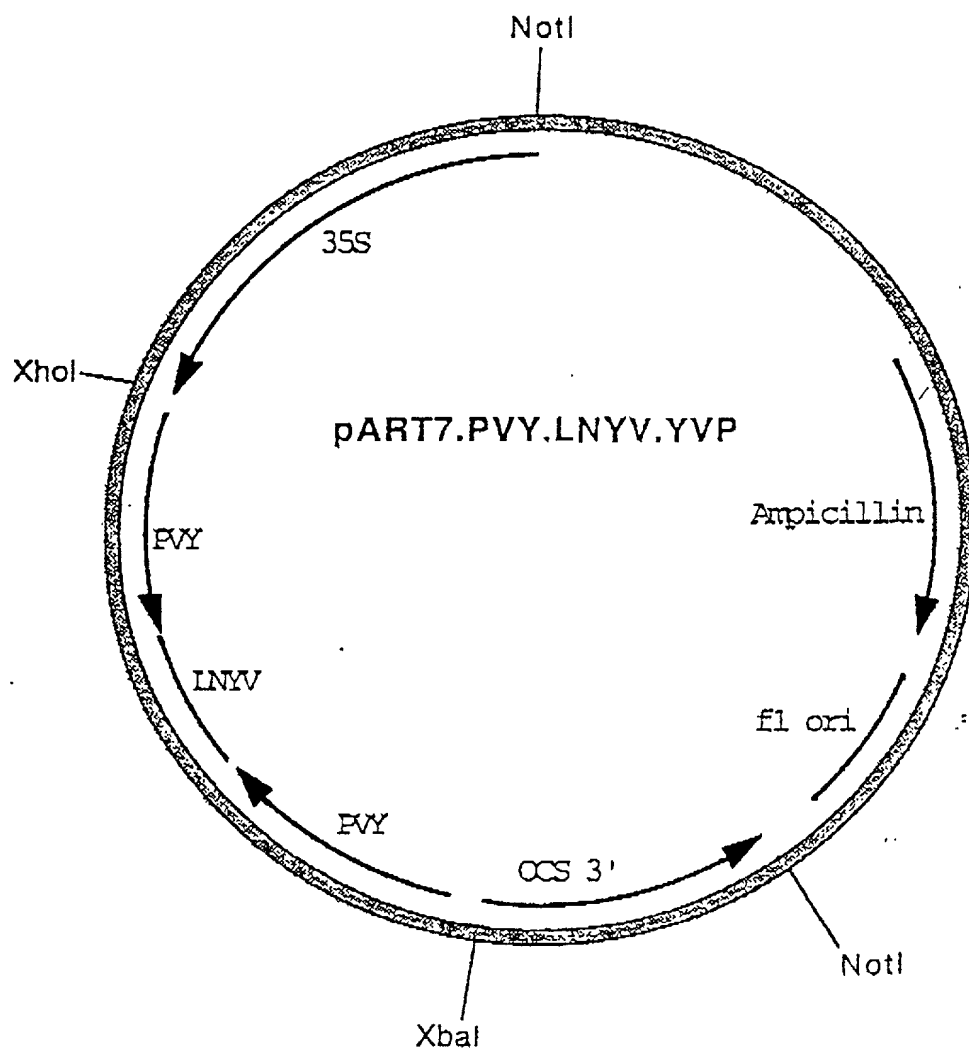


FIGURE 64

03997905.1.0003

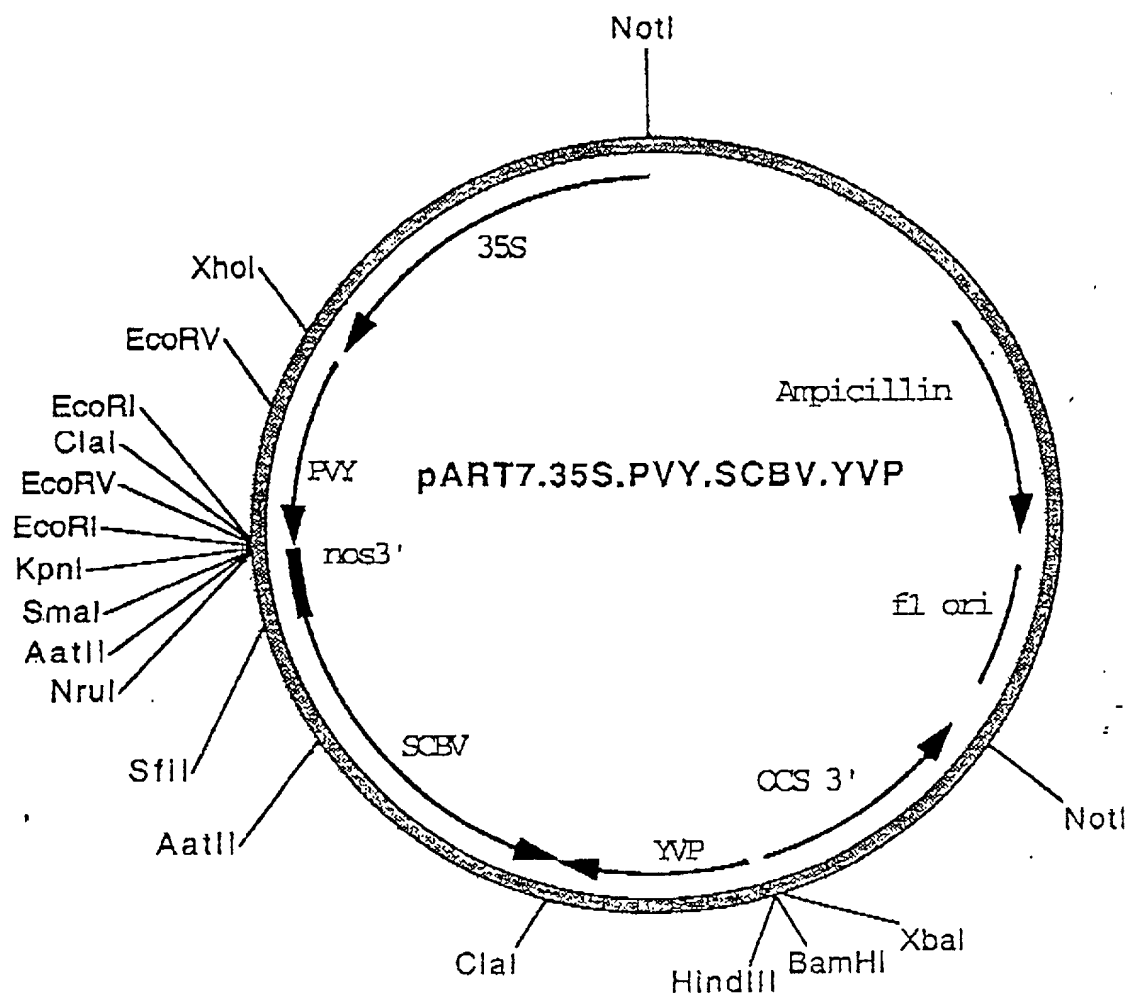


FIGURE 65

FIGURE 66

1

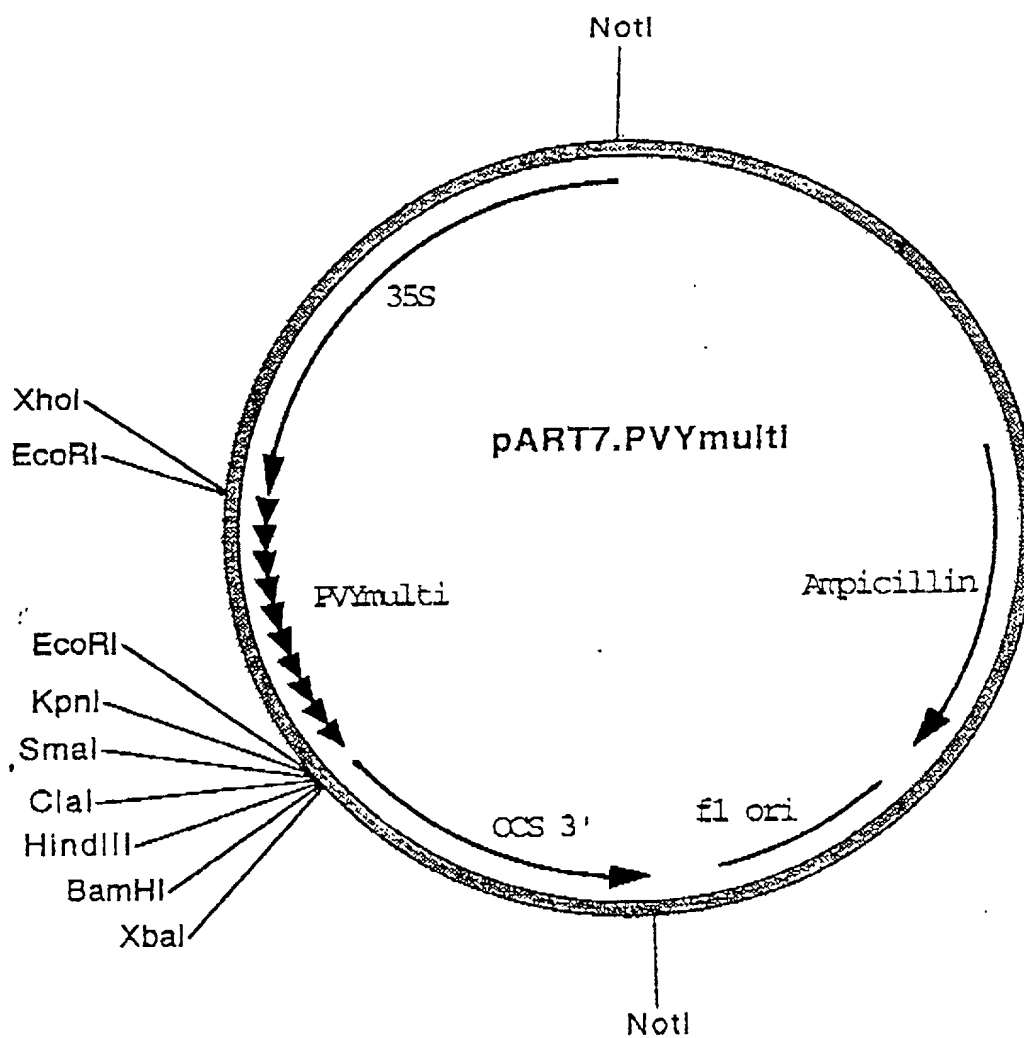
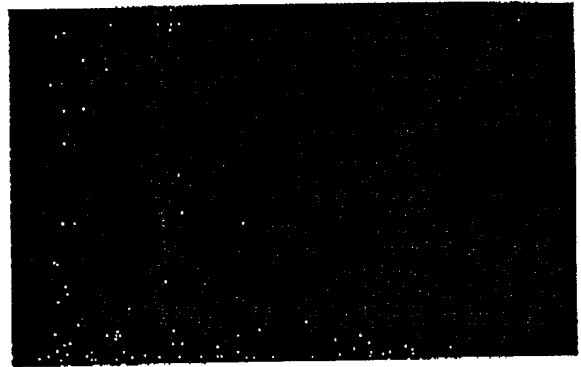


FIGURE 68

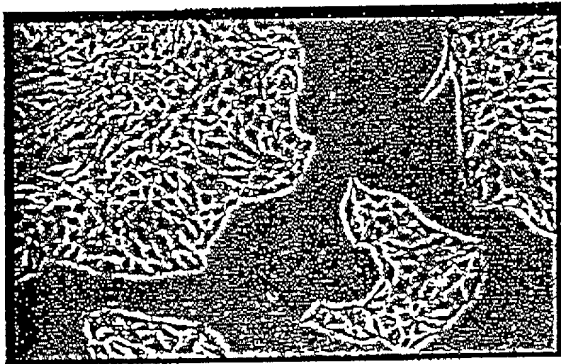
PK-EGFP 2.11
[light microscopy]



PK-EGFP 2.11
[fluorescence microscopy]



PK-EGFP 2.18
[light microscopy]



PK-EGFP 2.18
[fluorescence microscopy]



FIGURE 69

A B C D

8576 kb

7427

6106

4899

3639

2799

1953

1515

1482

1164

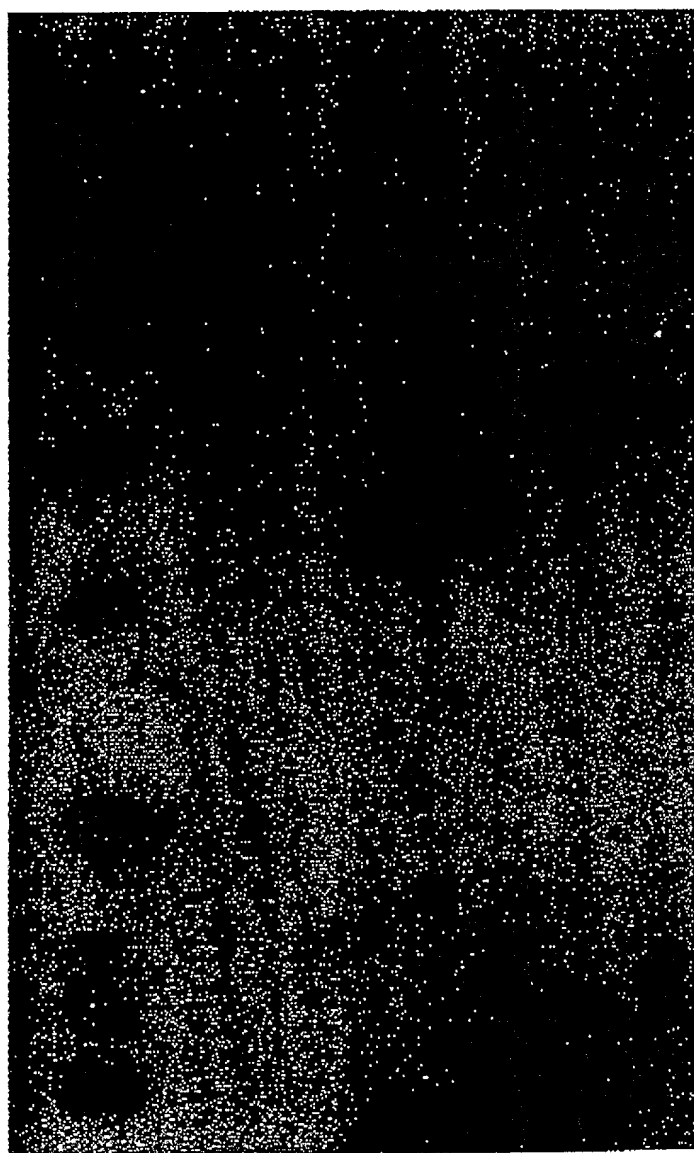
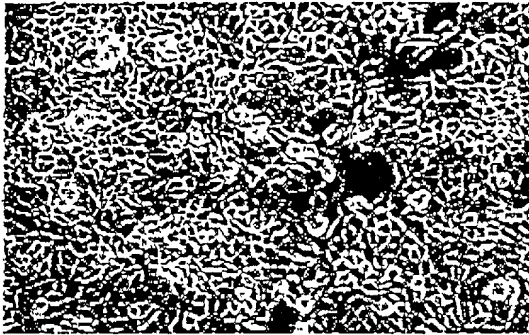
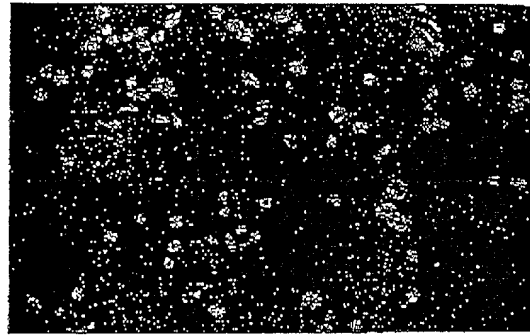


FIGURE 70

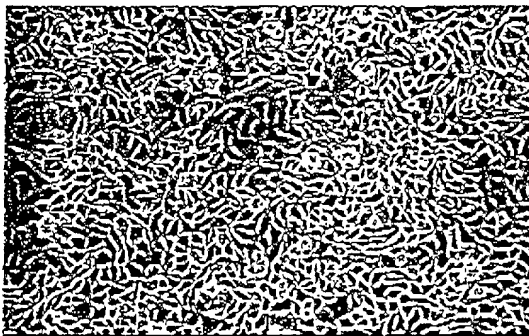
CRIB-1 [0hrs]



CRIB-1 [48hrs]



CRIB-1 BGI2 #19(tol) [0hrs]



CRIB-1 BGI2 #19(tol) [48hrs]

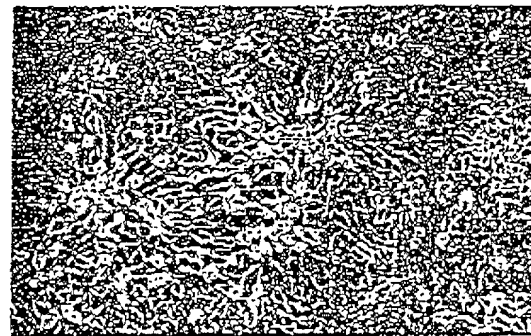


FIGURE 71

09097505-13004

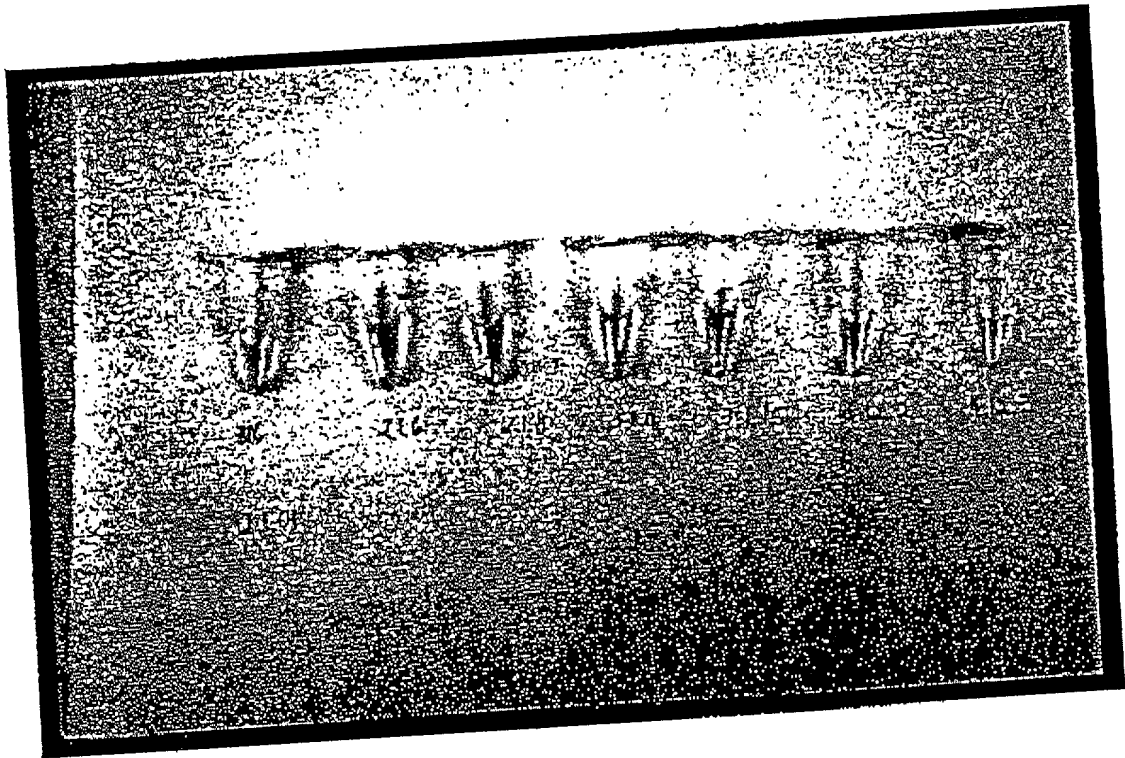
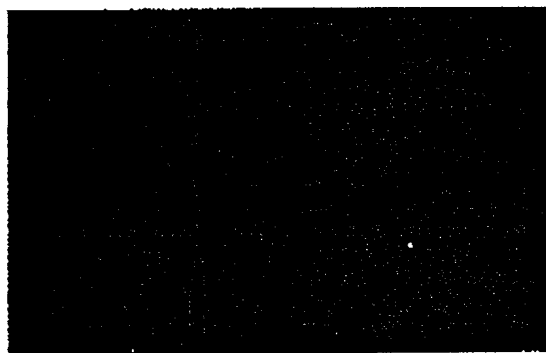
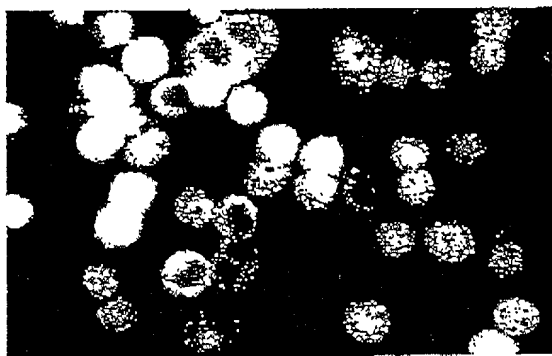


FIGURE 72

MDA-MB-468 [HER-2 stained]

MDA-MB-468 [Background]



MDA-MB-468 1.4 [HER-2 stained]

MDA-MB-468 1.10 [HER-2 stained]

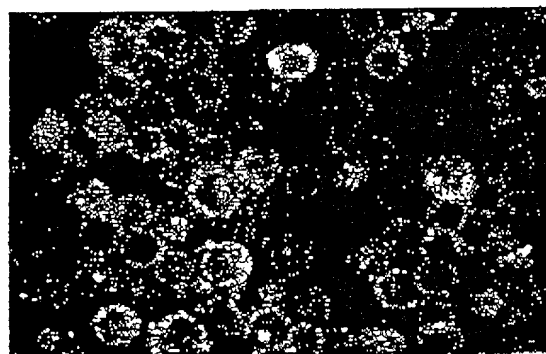
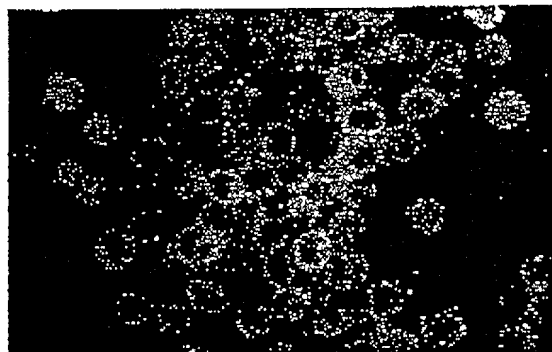
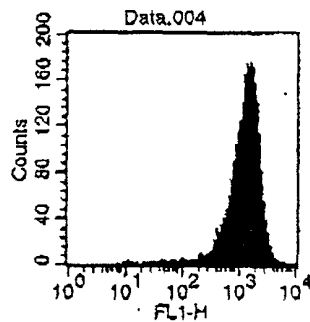
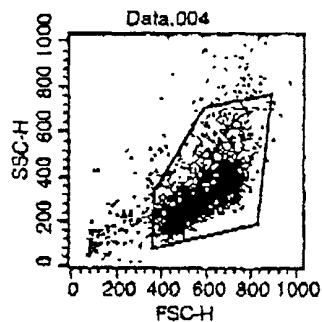


FIGURE 73

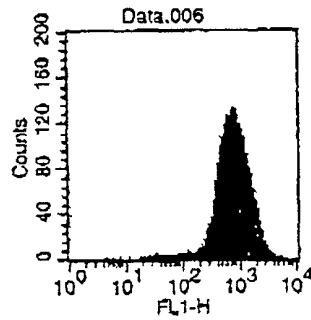
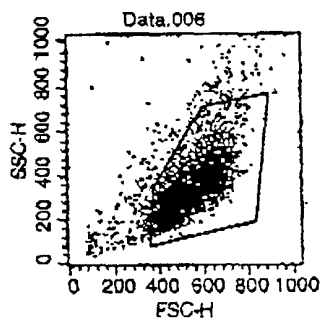
MDA-MB-468



File: Data.004

Mean	Geo Mean	Median
1224.90	1086.47	1175.74

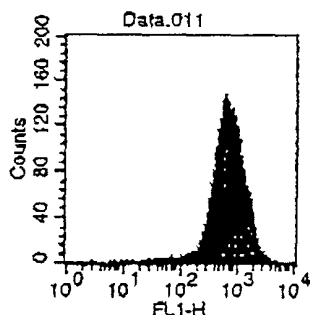
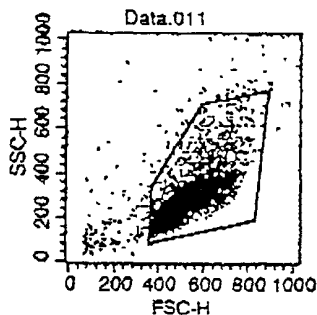
MDA-MB-468 1.4



File: Data.006

Mean	Geo Mean	Median
781.72	664.67	673.17

MDA-MB-468 1.10



File: Data.011

Mean	Geo Mean	Median
701.24	601.84	604.30

FIGURE 74

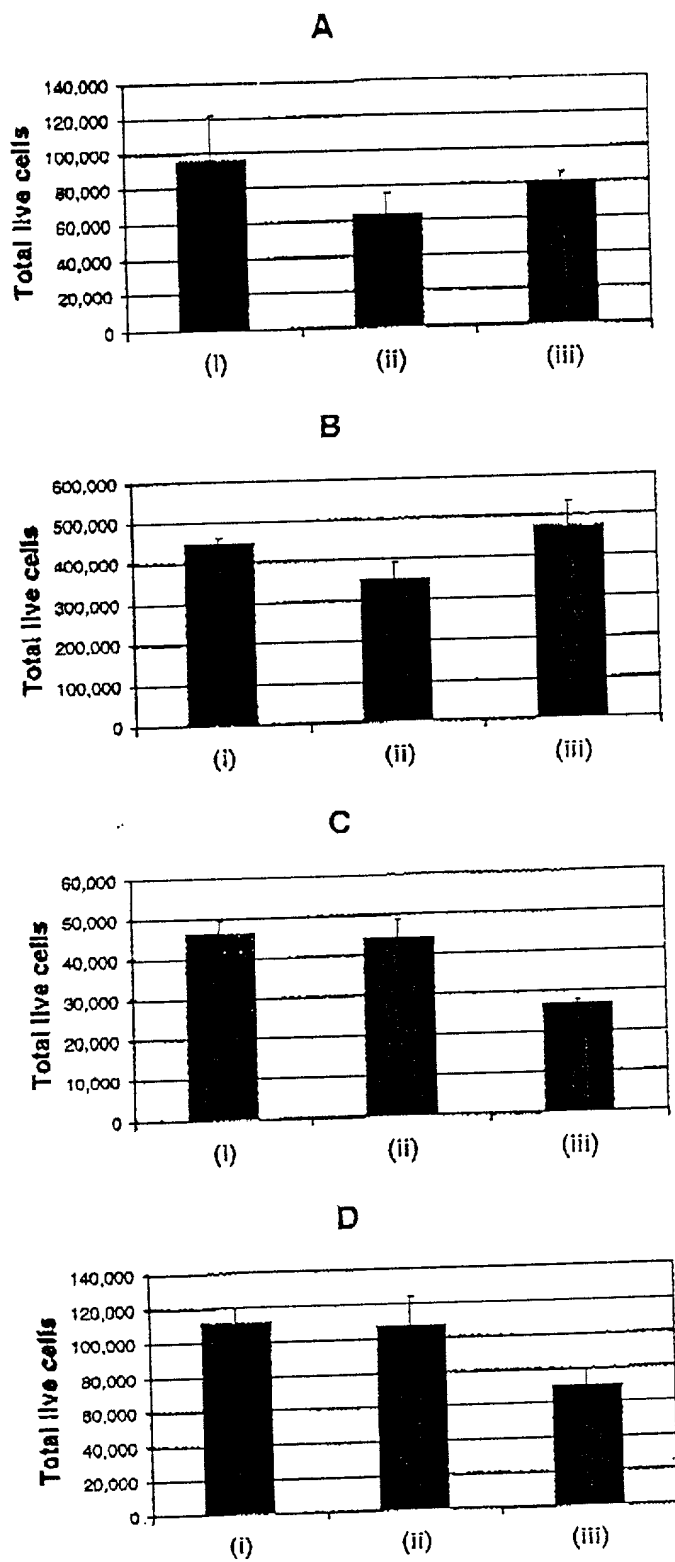
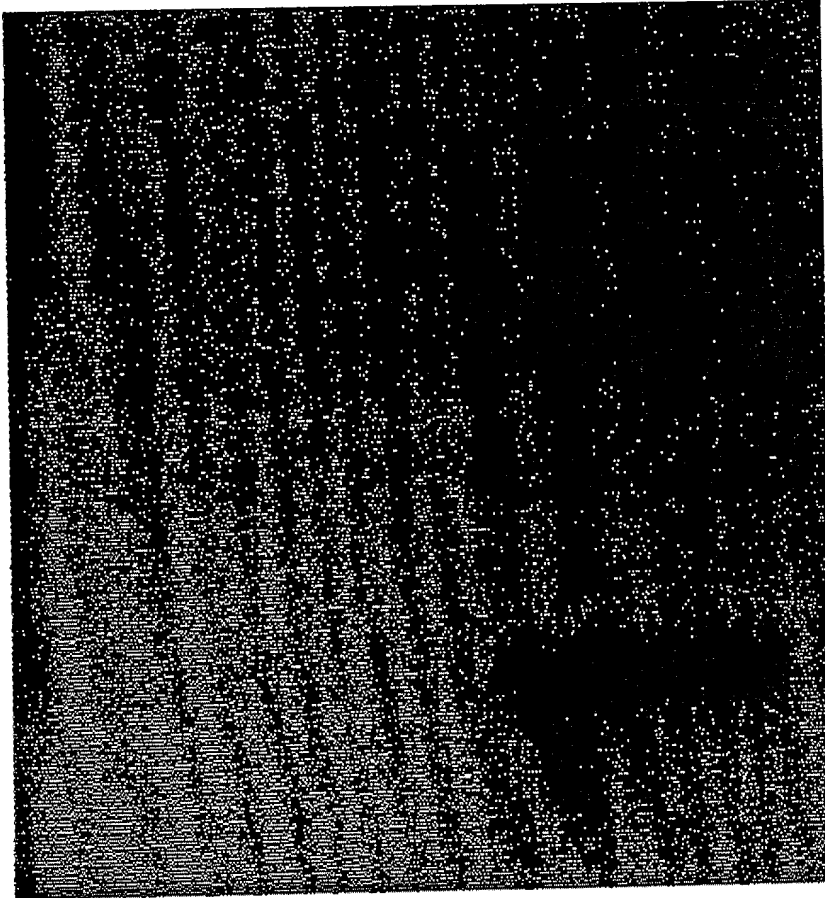


FIGURE 75

A

MM96L 3 9 18 22



B

MM96L 3 9 18 22

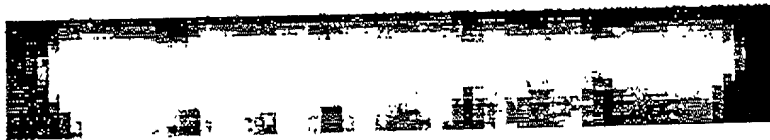


FIGURE 76

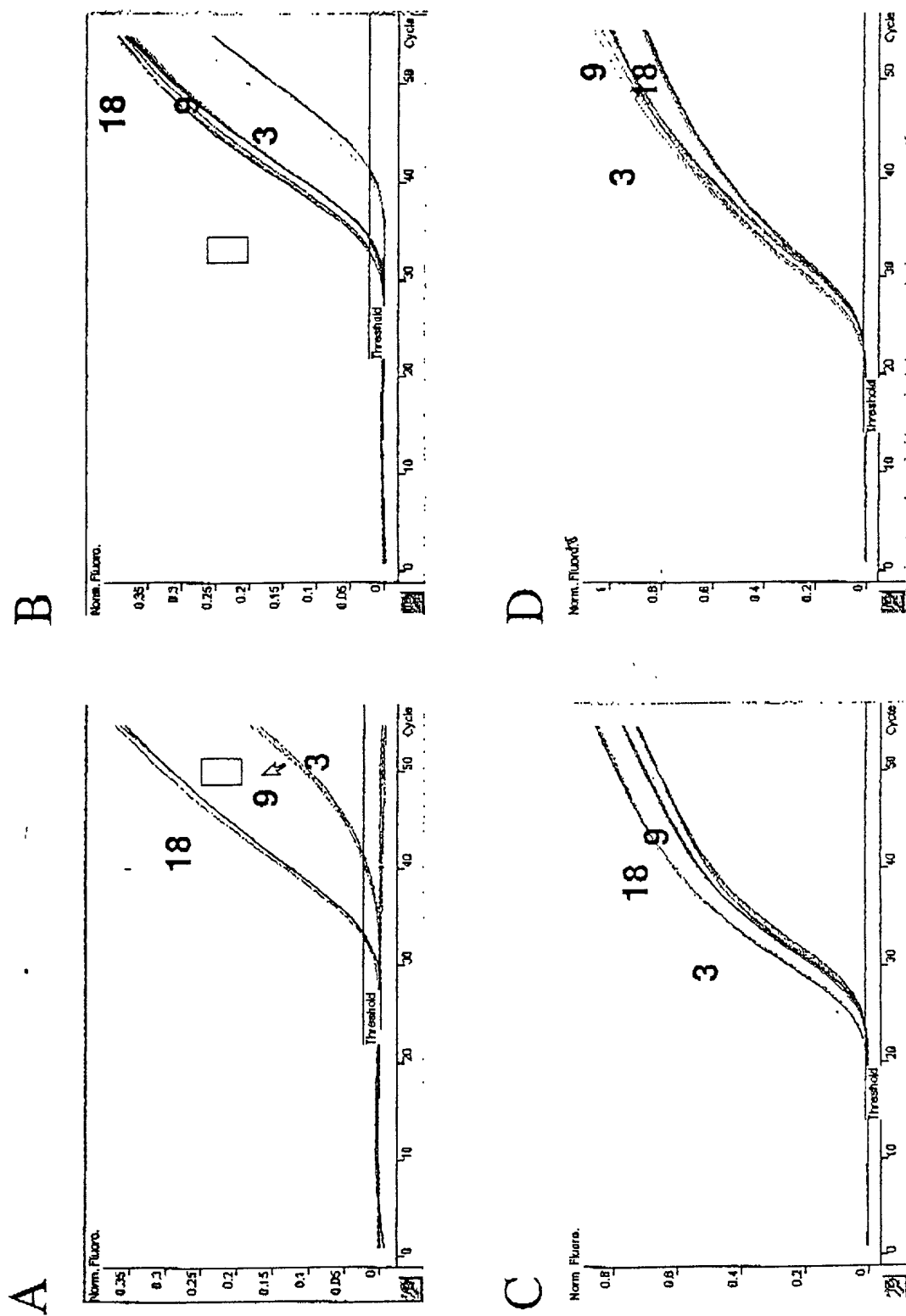


FIGURE 77

mRNA		Transcription			
		EGFP	GAPD	EGFP	GAPD
Clone #18	1.000	0.435	1.000	0.233	
Clone #3	0.000	1.000	0.004	1.000	
Clone #9	0.005	0.467	0.379	0.233	

FIGURE 78